University of Belize

Education Empowers a Nation

UB CATALOG

2025

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PREFACE

This catalog provides information about the academic programs of The University of Belize to students, prospective students, faculty and staff of the University. Included is information concerning admissions, academic regulations and requirements, services available to students, academic offerings and a list of the administrative officers and faculty of the University. While every effort has been made to make this catalog as complete and accurate as possible, changes may occur at any time in requirements, deadlines, fees, curricula and courses listed in this catalog.

Students should refer to the website www.ub.edu.bz for course offerings in any given semester. For administrative reasons, because of insufficient enrollment or limited resources, any given course or program might not be offered in the announced semester.

This catalog was prepared in advance of its effective date; therefore, the course descriptions may vary from actual course content. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, faculty or staff member of The University of Belize. This catalog is for informational purposes only. The university reserves the right to change or alter any statement herein without prior notice. This catalog should not be interpreted to allow a student that begins his or her education under the catalog to continue the program under the provisions in the catalog.

Note that many words or phrases appear in blue. This is an effort to create a user-friendly environment. This means that you are either able to navigate within this document or outside this document.

For instance, while reading a particular Program Sequence, each “Course ID” is highlighted in blue. When “clicking” on any of these, you will be forwarded to its respective Course Description. In some instances, you may be able to return to the program sequence, otherwise, you may be able to return to the department's mini table of contents.

Other links will be found immediately following each program sequence. Navigating using the link will allow you to download the respective current program sequence.

Each faculty has its own table of contents, if you wish to navigate only a particular faculty rather than browsing the entire Table of Contents at the beginning of the catalog. You may find the Index at the back of the catalog very useful since the page numbers for particular items are highlighted in blue, meaning you can be taken directly to that particular page.

Program Sequences show typical abbreviations or simply truncated words to accommodate the already predefined table column widths. For a complete Course Name and course detail, follow the link to the Course Description.

Pictures appearing in this catalog are scenes of the beautiful UB family and its picturesque environment.

1 WELCOME

PRESIDENT



Dear Students, Faculty, Staff, and Community Members,

It is my great honor to welcome you to the University of Belize, our nation's premier institution of higher learning, committed to academic excellence, innovative research, and meaningful community engagement. As President, I am deeply proud of the rich legacy we uphold and the vibrant future we continue to build together.

The University of Belize stands at a critical intersection of opportunity and responsibility, uniquely positioned to prepare the next generation of leaders, thinkers, and agents of change. Our academic programmes are designed to develop critical thinking, creativity, and a lifelong love of learning. We are equally committed to fostering an inclusive and supportive environment where all individuals are valued and can thrive.

This catalogue is more than a guide to courses and degree requirements. It reflects our collective dedication to knowledge, integrity, and service. Whether you are just beginning your studies or continuing to deepen your expertise, you are part of a community that will challenge, support, and inspire you every step of the way.

Together, through education, innovation, and collaboration, we strive to shape a stronger Belize and contribute to a better world. I encourage you to engage fully with the opportunities before you and to help us nurture the spirit of excellence that defines the University of Belize.

Thank you for choosing UB. We look forward to supporting your journey and celebrating your achievements in the years ahead.

With warm regards,
Dr. Vincent Palacio
President, University of Belize

1 WELCOME

VICE PRESIDENT OF ACADEMICS



Dear Students and Colleagues,

On behalf of the Division of Academic Affairs, I am delighted to welcome you to the University of Belize and to introduce you to this academic catalogue, your comprehensive guide to the educational pathways and opportunities that await you here.

At UB, we believe that education is transformative. Our carefully designed academic programmes combine rigorous scholarship with practical application, preparing you not only for successful careers but also for lives of purpose and impact.

Whether you are pursuing studies in the sciences, humanities, education, business, or any of our other distinguished fields, you will find a curriculum grounded in excellence and responsive to the evolving needs of Belize and the wider Caribbean region.

Our dedicated faculty members are not only accomplished scholars and professionals in their disciplines, but also passionate mentors committed to your intellectual growth and personal development. You will find them eager to guide your academic journey, challenge your thinking, and support your aspirations. Beyond the classroom, we offer a range of academic support services, research opportunities, and experiential learning experiences designed to enrich your education and help you reach your full potential.

This catalogue outlines the academic standards, policies, and programme requirements that will guide your studies. I encourage you to explore it thoroughly, consult with your academic advisors, and take full advantage of the resources available to you. Your success is our priority, and we are here to support you at every stage of your academic career.

As you embark on or continue your journey at the University of Belize, know that you are joining a community of scholars dedicated to the pursuit of knowledge, the advancement of Belizean society, and the cultivation of critical minds. I look forward to witnessing your growth and celebrating your achievements.

Welcome to UB. Let us learn, discover, and excel together.

Sincerely,
Sherlene Enriquez-Savery
Vice President, Academics
University of Belize

2 BACKGROUND INFORMATION

2.1 HISTORY

English colonialism in Belize from about the 1660s to 1981 left very little impact on higher education except for the establishment of the Belize Teachers Training College in 1954. Nursing education did pre-date the University College of the West Indies by over half a century but the nursing school was not a tertiary level institution until around 1963 with the opening of the Bliss School of Nursing. The

University College of the West Indies with its Belize Extra Mural Department was established in 1948. In the early 1980s, the Belize College of Arts, Science and Technology (BELCAST) was projected as the national polytechnic to provide the technical and professional education needed in a newly independent Belize. However, BELCAST was not given time to show whether or not it could deliver on its goals. The Belize junior colleges beginning in the late 1960s with the work of the Jesuits were significant especially when the then Sixth Forms in the districts took tertiary level education to a greater cross section of the Belizean community in the mid-1980s.

BELCAST gave way to the University College of Belize (UCB) established in 1986 as the first modern Belizean institution that offered baccalaureate degrees in Belize. UCB was projected as a university college under the tutelage of a more mature university to offer professional programs necessary for the country's development. It was expected that in due course, UCB would be sufficiently developed to go off on its own. The "apprentice institution" experiment ended abruptly when it was discovered that Ferris State University (FSU) failed to obtain the approval of its accreditation agency for its programs in Belize. The accreditation agency directed FSU to discontinue its programs in Belize forthwith. UCB had to fly on its own.

The government of Belize announced in late 1998 its policy decision to amalgamate UCB with four government tertiary level institutions, the Bliss School of Nursing, the Belize College of Agriculture, the Belize Teachers Training College and the Belize Technical College. A secretariat was organized to plan the integration of the five institutions into one but since there was not enough time, only the most urgent policies and regulations were addressed. Subsequently, the UB Act of 2000 defined the goals of the national university and the Board of Trustees as its maximum authority and the President as its Chief Executive Officer.

On 1st August 2000 the University of Belize opened its doors with 2134 students in five faculties: Agriculture & Natural Resources, Business, Education, Arts & Science and Nursing & Allied Health at a central campus in Belmopan with additional campuses in Belize City, Punta Gorda and Central Farm. Central administration was made up of a President, three vice presidents (Academic Affairs, Finance & Administration and Student Affairs), a Director of Development and Director of Research. The faculties were led by Deans supported by department Chairs and Coordinators.



2 BACKGROUND INFORMATION

Integration continued to be a challenge nine years after amalgamation. Governance issues in relation to the role and function of the Ministry of Education, the Board of Trustees and the President's Office are not clearly defined and have therefore caused inconsistencies in policy formulation and implementation. Funding the institution with no agreed-upon formula of the state's contribution continues to pose challenges to strategic planning. While delivering some 40 academic programs in 2000 was the immediate priority since students had to be "phased out" in the program curriculum they were admitted with, UB had to re-align the curricula of the five faculties to reflect the new institution's mission.

In 2002 there was a major restructuring exercise. The president was changed and the number of faculties reduced from five to four. One of the vice presidencies was closed together with the Research Office and the Quality Assurance Office. The Human Resource Office was upgraded to a more senior office. UB was declared a "teaching university", also setting aside the development work in research.

In 2007 there was another change in the presidency and the planning ensued for a multi-year strategic development plan better aligned to the country's developmental agenda. With support from The Consortium of Belize Educational Cooperation (COBEC) partners and with the participation of stakeholders, a vision was formulated and approved by the Board. Faculty and administration worked in formulating the plan which was also approved by the Board.

By 2015, UB commenced the preparation for institutional accreditation. The student population had reached 3,600 with over 250 faculty and staff delivering 50 academic programs. Equipment and space, as well as a systemic human resource development plan were required for the entire institution. The infrastructure in Belmopan needed substantive investments for the next ten years for a possible total student population of 8,000 students.

At present, we are offering a total of 58 programs. Our student population has grown to over 5,000 with a faculty and staff roster of over 300.

2.2 MISSION STATEMENT

As the National University, the University of Belize commits to delivering excellence in higher education, service, and research for national development to its students and other stakeholders. With the highest level of qualified and experienced faculty and staff and current technology, the university provides access to the most relevant and affordable human resource development programs based on academic freedom, equity, and transparency.

2.3 VISION STATEMENT

The University of Belize aims to be regionally accredited and globally recognized as the premier, responsive, innovative, and sustainable degree-granting university that fosters excellence in teaching, research and service that drives national development.

3 ADMINISTRATIVE OFFICERS



Vincent Palacio, Ph.D
President



Sherlene Enriquez-Savery, Ph.D
Vice President, Academic Affairs



Mariot Simon, DBA
Vice President, Finance and Administration



Concepcion Castro, M.Ed
Registrar



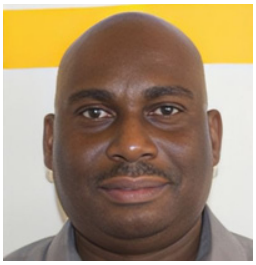
Martin Cuellar, Ph.D
Dean, Student Affairs



Thisbe Lucas-Usher, Ph.D
Dean, Faculty of Education & Arts



Lydia Thurton, M.Sc
Dean, Faculty of Health Sciences



Bernard Watler, Ed.D
Dean, Faculty of Management & Social Sciences



Apolonio Aguilar, Ph.D
Dean, Faculty of Science & Technology



Lisa Johnson, M.D
Dean, School of Medicine



Gilroy Middleton Jr., Ph.D
Interim Director, Human Resource



Irene Garcia, MBA
Director, Finance



Luis Herrera, M.Sc
Director, Information, Communication & Technology



Freida Palma, Ph.D
Director, Open and Distance Learning



Jake Snaddon, Ph.D
Director, Environmental Research Institute



Joyanne De Four-Babb, Ph.D
Director, Research Office

3 ADMINISTRATIVE OFFICERS



Yma Casey, M.A
Director, Marketing and Communications



Egbert Irving, MBA
Director, Institutional Advancement



Lugie Cruz, M.A
Director, Regional Language Center



Dylan Vernon, Ph.D
Director, Belize Policy Research Institute



Tritia Stuart-Gordon, M.Sc
Acting Director, Quality Assurance



Francis Burns
Director, Physical Plant



Roy Polonio, M.Sc
Campus Administrator, Toledo Campus



Maximilliano Ortega, M.Sc
Campus Administrator, Central Farm Campus



Delmer Tzib, M.A
Coordinator, Intercultural Indigenous Language Institute



Derrick Conorqui, M.Sc
Coordinator, Institute of Banking and Finance



Saddith Torres, M.Ed
Coordinator, Admissions



Erlinda Nunez-Smith, M.Ed
Coordinator, Student Services



Kelsy Balderamos, B.Sc
Coordinator, Recreation and Sports



Trevelle Williams, M.Sc
Chief Librarian



John Salam
Chief Security Officer

4 UNIVERSITY ABBREVIATIONS

A.A.	ASSOCIATE OF ARTS
A.S.	ASSOCIATE OF SCIENCE
ACE	ADULT AND CONTINUING EDUCATION
ATLIB	ASSOCIATION OF TERTIARY LEVEL INSTITUTIONS IN BELIZE
B.A.	BACHELOR OF ARTS
B.Sc.	BACHELOR OF SCIENCE
B.S.S.	BACHELOR OF SOCIAL SCIENCE
CR. CR./HR.	CREDIT, CREDIT HOUR
ED	EDUCATION
ERI	ENVIRONMENTAL RESEARCH INSTITUTE
FEA	FACULTY OF EDUCATION AND ARTS
FHS	FACULTY OF HEALTH SCIENCES
FMSS	FACULTY OF MANAGEMENT AND SOCIAL SCIENCES
FNAHSW	FACULTY OF NURSING, ALLIED HEALTH AND SOCIAL WORK
FST	FACULTY OF SCIENCE AND TECHNOLOGY
JAB	JABIRU
JAG	JAGUAR
QA	QUALITY ASSURANCE
RLC	REGIONAL LANGUAGE CENTER
SM	SCARLET MACAW
UB	UNIVERSITY OF BELIZE (THE)
UBSoM	UNIVERSITY OF BELIZE SCHOOL OF MEDICINE

5 PROGRAM OFFERING

Bachelor programs with ** = Students may enter these programs directly after High School			
*Campus/Location Codes - BMP=Belmopan; BZ=Belize City; PG=Punta Gorda; OL=Online; CF=Central Farm; SHJC=Sacred Heart Junior College; SPJC=San Pedro Junior College			
Official Cost Estimates can be sourced from the Accounts Office at accountsreceivables@ub.edu.bz			
UNDERGRADUATE PROGRAMS			
ASSOCIATES DEGREE PROGRAMS			
PROGRAM	**CAMPUS/ LOCATION**	**COST ESTIMATE**	**PROGRAM ENTRY REQUIREMENTS**
Applied Climate Smart Agriculture (ACSA)	CF	$6,519	GPA of 2.0 or above in English, Mathematics, Biology, Chemistry and CGPA. Background in Agriculture is an advantage
Architecture (AARC)	BMP	$6,070	GPA of 2.5 or above in English, Mathematics, Physics and CGPA. Background in Technical Drawing or a related field is an advantage.
Biology (ABIO)	BMP	$6,687	Minimum GPA of 2.5 in Biology, 2.5 in Chemistry, 2.0 in English, 2.0 in Mathematics and 2.0 CGPA
Biology and Chemistry (ABCB)	BMP	$7,467	Minimum GPA of 2.5 in Biology, 2.5 in Chemistry, 2.0 in English, 2.0 in Mathematics and 2.0 CGPA
Business Science (ABUS)	BMP, BZ, PG	$5,303	GPA of 2.0 or above in English, Mathematics and CGPA
Chemistry (ACHM)	BMP	$6,658	Minimum GPA of 2.5 in Biology, 2.5 in Chemistry, 2.0 in English, 2.0 in Mathematics and 2.5 CGPA
Chemistry and Mathematics (ACMB)	BMP	$6,453	Minimum GPA of 2.5 in Biology, 2.5 in Chemistry, 2.0 in English, 2.0 in Mathematics and 2.0 CGPA

5 PROGRAM OFFERING

Civil Engineering Technology (ACET)	BMP	$6,126	GPA of 2.5 or above in English, Mathematics, Physics and CGPA. Background in Technical Drawing or a related field is an advantage
Criminal Justice & Criminology (ACJC)	BMP, BZ, OL	$5,303	GPA of 2.0 or above in English, Mathematics and CGPA
Early Childhood Education (AECE)	OL	$7,444	GPA of 2.0 or above in English, Mathematics and CGPA
English (AENG)	BMP	$5,303	GPA of 2.0 or above in English, Mathematics and CGPA
Information Technology (AINT)	BMP	$5,440	Minimum GPA of 2.5 in Mathematics, 2.0 in English, 2.5 in Information Technology and CGPA
Mathematics (AMAT)	BMP	$5,303	Minimum GPA of 2.0 in English, 2.5 in Mathematics and 2.5 CGPA.
Mathematics and Physics (AM&P)	BMP	$6,579	Minimum GPA of 2.0 in English, 2.5 in Mathematics, 2.5 in Physics and 2.5 CGPA
Mechanical & Electrical Engineering (AMEE)	BMP	$7,492	GPA of 2.5 or above in Mathematics, English, Physics and CGPA. Background in Chemistry is an advantage
Natural Resource Management (ANRM)	BMP	$6,144	Minimum GPA of 2.5 in Biology, 2.5 in Chemistry, 2.0 in English, 2.0 in Mathematics and 2.0 CGPA
Pre-Medical Science (APMD)	BMP	$8,148	GPA of 3.0 or above in Biology, Chemistry, English, Mathematics and CGPA

Primary Education (APRE)	BMP, BZ, PG	$7,561	GPA of 2.0 or above in English, Mathematics and CGPA
Tourism Studies (ATOS)	BMP, BZ, PG	$5,435	GPA of 2.0 or above in English, Mathematics and CGPA
BACCALAUREATE DEGREE PROGRAMS			
Accounting (BACC)	BMP, BZ	$10,427	Associate in Business or related field
Applied Agriculture (BAGR)	CF	$8,294	Associate in Applied Climate Smart Agriculture or related field
Biology (BBIO)	BMP	$10,478	Associate in Biology or related field
Biology Education (BBIE)	BMP	$14,086	Associate in Biology or related field
Business Administration - Finance (BBFN)	BMP, BZ, SHJC, SPJC	$10,412	Associate in Business or related field
Business Administration - Marketing (BBMK)	BZ, SHJC, SPJC	$10,412	Associate in Business or related field
Business Education - Accounting (BBUE)	BMP	$14,070	Associate in Business or related field
Business Education - Information Technology (BBUE)	BMP	$13,011	Associate in Business or related field

5 PROGRAM OFFERING

Business Education - Management (BBUE)	BMP	$14,070	Associate in Business or related field
Chemistry (BCHM)	BMP	$9,968	Associate in Chemistry or related field
Criminal Justice & Criminology (BCJC)	BMP, BZ, OL	$9,353	Associate in Criminal Justice & Criminology or related field
English (BENG)	BMP	$8,667	Associate in English or related field
English Education (BENE)	BMP, Outreach	$13,717	Associate in English or related field
Information Technology (BINT)	BMP	$10,311	Associate in Information Technology or related field
Marine Biology** (BMAB)	BMP	$22,507	Minimum GPA of 3.0 in Biology, 3.0 in Chemistry, 2.0 in English, 2.0 in Mathematics and 2.0 CGPA. Duration: 4 years
Mathematics (BMAT)	BMP	$10,069	Associate in Mathematics or related field
Mathematics Education (BMAE)	BMP	$14,297	Associate in Mathematics or related field
Medical Laboratory Science ** (BMLS)	BMP	$24,765	GPA of 2.5 or above in English, Mathematics, Chemistry, Biology and CGPA or an Associate in Medical Lab Technology. Duration: 4 years. -CXCs are not required but are an advantage.

5 PROGRAM OFFERING

Medicine, Surgery (MBBS)	BMP	$172,850	Associate in Pre-Medical Science or related field with minimum CGPA of 3.0. Duration: 5 years
Natural Resource Management (BNRM)	BMP	$10,929	Associate in Natural Resource Management or related field. *Note students matriculating from a Junior College would require an evaluation of the courses to meet the BNRM pre-requisite check-list.
Nursing ** (BNUR)	BMP	$21,456	For aspiring Registered Nurses Five (5) CXCs grades 1-2 (incl. English, Mathematics, Biology, Chemistry & 1 other) Duration: 4 years -Students applying to this program must be at least 17 years old at the beginning of the academic year of entry. Students who successfully complete this program, are eligible to sit the Regional Examination for Nursing Registration.
Pharmacy ** (BPHA)	BMP	$24,545	GPA of 2.5 or above in English, Mathematics, Chemistry, Biology and CGPA. Duration: 5 years. - CXCs are not required but are an advantage.
Primary Education (BPRE)	BMP, BZ, PG, Outreach	$11,174	Associate Degree in Primary Education
Public Sector Management (BPSM)	OL	$10,886	Associate in Business or related field
Social Work ** (BSOW)	BZ	$18,600	GPA of 2.5 or above in English, Mathematics and CGPA. Persons with an Associate in Social Work can also apply. Duration: 4 years

Statistics ** (BSTA)	BMP	$19,328	GPA of 2.5 or above in English, Mathematics and CGPA
Tourism Management (BTOM)	OL	$10,412	Associate in Business or related field
POST-BACCALAUREATE PROGRAMS			
Education Methodology (DEDM)	BMP, BZ, PG	$8,350	Bachelor Degree & High School Teaching Experience
Midwifery (CMID)	BMP		Bachelor in Nursing
GRADUATE DEGREE PROGRAMS (MASTER)			
Business Administration (MBA)	OL	$23,865	Bachelor Degree. Duration: 1.5 years. Request application and information at admissions@ub.edu.bz
Educational Leadership (MEDL)	OL	$20,068	Bachelor Degree. Request application and information at admissions@ub.edu.bz
Philosophy – Research Degree (All Disciplines) (MPhil)	BMP, BZ, PG, OL	$39,300	Bachelor Degree. The Master of Philosophy (MPhil) is a research-based graduate degree open to applicants from all major discipline areas. Admission is contingent on the alignment of the applicant's proposed research with the expertise and availability of qualified supervisors at the University of Belize. Applicants must propose a viable research area that can be supported within the University's existing supervisory capacity. Duration: average of 2 years. Request application and information at admissions@ub.edu.bz

5 PROGRAM OFFERING

NON-DEGREE PROGRAMS			
English as a Second Language ** (CESL)	BMP	$7,520	High School Diploma. Duration: 10 months
Practical Nursing ** (CPRN)	BMP	$4,863	For aspiring Nurse Assistants GPA of 2.5 and above in Mathematics, English, Biology and CGPA. Duration: 18 months. -This program is different from the Bachelor in Nursing and its courses are not transferable to the Bachelor in Nursing program. Students applying to this program must be at least 17 years old at the beginning of the academic year of entry. Students who successfully complete this program are eligible to sit the licensure examination for Practical Nurses from the Nurses and Midwives Council of Belize.
Undeclared Major (PGEC)	OL	$3,362	GPA of 3.0 and above in English, Mathematics and CGPA. -Students are only allowed to remain in this Major for a maximum of 1 year before choosing a program.

6 FACULTIES AND DEPARTMENTS

6.1 FACULTY OF EDUCATION AND ARTS (FEA)

MISSION
The Faculty of Education and Arts cultivates holistic and thoughtful citizens, effective leaders, and empowered professionals serving the nation by upholding principles of inclusion, academic freedom, equity, and transparency through technological, innovative, and student-centered programs in Education and the Humanities.

VISION
The Faculty of Education and Arts will have a transformative impact on Belize and the region, underpinned by our commitment to excellence in teaching, student support, research, artistic expression, community outreach and partnerships, and the advancement of social justice.

6.1.1 LANGUAGES, LITERATURE AND HISTORY DEPARTMENT

ASSOCIATE DEGREE PROGRAMS

1. Associate in English
Program Vision: The English Department of the University of Belize is committed to the advancement of students through an integrated study of literatures in English. The program is committed to producing student scholars who demonstrate proficiency in the skills of textual analysis, critical thinking, and articulate written and oral communication.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Arts in English
Program Description
The Bachelor of Arts in English degree prepares students for careers or further study in areas that require skills in critical thinking, intercultural competence and exceptional verbal and written communication, especially: Journalism and Media, Arts, Culture and Entertainment, Publishing and Editing, Academic Research, Teaching, Consultation for NGOs, Grant Writing, Health Administration, Law, Investment Management, Foreign Service and the Diplomatic Corps, Advertising and Marketing, and Real Estate.

2. Bachelor of Arts in English Education
Program Description
The Bachelor's Degree in English Education is an advanced program which prepares student-teachers with the content and methodology to be effective and innovative professionals at the primary, secondary, or supervisory level of educational institutions. Students are provided with professional courses in education, concept courses that address an awareness of the diverse linguistic and cultural backgrounds in Belize, the Caribbean and the global society, factors influencing language acquisition, the complexity of the English language problems found in Belizean classrooms, literary meaning in historical, social, cultural, national, regional, and international contexts, and methodology courses using

instructional techniques in the teaching of English as a second language, and targeting language skills such as grammar, usage, and mechanics. This program culminates with a one-semester internship experience which effectively allows the student to apply theories learned to daily practice in the teaching of English. Furthermore, the Bachelor's Degree in English Education program develops within the student the capacity to critically assess the importance of effectively communicating in English, orally and in writing. The students should also recognize the significance of the role of English as the language of instruction throughout the education system of Belize.

3. Bachelor of Arts in Spanish Education
Program Description
The Bachelor's degree in Spanish Education prepares students with the concepts, skills and attitudes to be functional, effective, efficient and innovative Spanish teachers at the primary or high school levels.

4. Bachelor of Science in History
Program Description
The Bachelor in History Program equips students to critically engage with the past in ways that strengthen national identity, cultural heritage, and public historical understanding. Emphasizing rigorous teaching, research, and service, the program fosters analytical and methodological skills, ethical awareness, and interdisciplinary approaches. It promotes historical scholarship that addresses Belize's development, integrates technology and community-based research, and creates an inclusive learning environment committed to public engagement and academic excellence.

6.1.2 EDUCATION DEPARTMENT

Mission
The Department of Education within the Faculty of Education and Arts at the University of Belize is dedicated to cultivating skilled, reflective, and future-ready educators who uphold regional and international standards of excellence in teacher preparation. We are committed to advancing innovation, inclusivity, and research-driven practices across all levels of education. By integrating current trends and emerging technologies into our programs, we empower educators to become technologically proficient, globally aware, and locally responsive leaders who inspire meaningful learning and drive educational transformation in Belize and beyond.

Vision
The Department of Education envisions leading the region in preparing innovative and technologically proficient educators who uphold high standards, foster equity, and drive excellence across the educational sector.

ASSOCIATE DEGREE PROGRAMS

1. Associate of Science in Early Childhood Education
Program Description
The Associate Degree in Early Childhood Education is designed for pre-service and practicing teachers in Early Childhood classrooms. The program focuses on teaching children from birth to eight years. Coursework in literacy, child development, psychology, and educational activities will familiarize

student teachers with how children grow physically, emotionally, socially, cognitively and creatively. Student teachers will learn effective techniques for working with young children and become proficient at forging strong partnerships with families. Field Experience takes place in an early childhood classroom setting where participants will spend the final semester doing supervised teaching.

2. Associate Degree in Primary Education
Program Description
The Associate Degree in Primary Education program prepares student-teachers with the content and methodology required to be effective at the primary school level. This program aims to foster an understanding of personal, interpersonal, intra-personal, academic, and ethical requirements of the teaching profession. This program culminates with an intensive one-semester internship experience, which allows student-teachers to apply concepts, and methods of their courses into the regular classroom environment. It is also intended to give the student-teachers the opportunity for practice, analysis, interpretation, decision making, and reflective teaching. The Associate Degree in Primary Education aims to foster professionalism, and a commitment to the standards required by the National Primary Curriculum.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Science in Primary Education
Program Description
The Bachelor Degree in Primary Education is an advanced program which prepares student-teachers with the content and methodology to be efficient and innovative teachers at the primary school level. Student-teachers are prepared to assume leadership roles and to conduct research to inform best practices. In addition, it promotes an understanding of personal, interpersonal, intra-personal, academic, and ethical requirements of the teaching profession. This program aims to foster an understanding of personal, interpersonal, intra-personal, academic, and ethical requirements of the teaching profession. The Bachelor Degree in Primary Education culminates with an intensive one-semester internship experience, which allows student-teachers to apply concepts, and methods of their courses into the regular classroom environment. The Bachelor Degree in Primary Education aims to foster professionalism and a commitment to the standards required by the National Primary Curriculum.

2. Bachelor of Science in Biology Education
Program Goal
To equip educators with the skills, methodologies and content to effectively plan, deliver, assess and evaluate any biological program at the secondary level.

3. Bachelor of Science in Business Education - Accounting
Program Description
The Bachelor in Business Education Degree with cognate in Accounting is a program that prepares Secondary and Junior College level teachers with the Accounting and Finance courses necessary to deliver CXC/CAPE syllabi. These student-teachers are empowered with the pedagogical/andragogical knowledge and skills necessary to prepare students to meet the growing demand for future Accounting and Auditing personnel in our developing society. The program includes a broad core business course that encompasses the body of knowledge that highlights the successful practice in business administration, an accounting core that provides the conceptual and analytical skills necessary to

succeed in the accounting profession along with the theoretical and practical components to prepare them to be an effective teacher.

4. Bachelor of Science in Business Education - Information Technology
Program Description
The Bachelor in Education Degree with cognate in Information Technology is a program that empowers the In- formation Technology Teachers of Secondary and Junior Colleges with a sound foundation in IT together with the practical aspects of the discipline. Along with the pedagogical/andragogical development, these student-teachers will obtain the knowledge of deploying computer systems to enhance learning and achieve educational objectives through effective resource utilization. This program will expose students to fundamentals, principles and theoretical aspects of design, development and maintenance of computer systems while preparing them to adapt to technological changes through research and practice.

5. Bachelor of Science in Business Education - Management
Program Description
The Bachelor in Business Education Degree with cognate in Management equips Secondary and Junior College level teachers with Business and Human Resource Management skills, including development of organizational objectives, problem solving, decision making, planning, organizing and controlling to provide an effective work environment. These skills will prepare student-teachers to meet the challenges of an increasingly competitive global market and deliver Economics, Office Management and Principles of Accounting Courses. These student-teachers will develop fundamental skills in the pedagogical/andragogical aspects while exposed to the CXC/CAPE syllabus and best practices in business and educational circles to enhance their teaching and learning skills.

6. Bachelor of Science in Mathematics Education
Program Description
The Bachelor in Mathematics Education at the University of Belize prepares skilled and reflective mathematics educators for the secondary level. The program combines strong mathematical content knowledge with rigorous training in pedagogy, professional practice, and ethical standards, equipping graduates with advanced skills in teaching, assessment, and classroom management.
Through a comprehensive and challenging curriculum, students develop critical thinking, problem-solving, and analytical abilities, ensuring they are well-prepared to deliver high-quality mathematics education. The program emphasizes professionalism, reflective practice, and a commitment to excellence in mathematics teaching.

DIPLOMA PROGRAM

1. Diploma in Education Methodology
Program Description
The Diploma in Education Program (DEDM) is designed for in-service teachers who have completed a Bachelor Degree and need the requisite pedagogical competence. This program places emphasis on pedagogical, professional, psychological, philosophical, sociological, and ethical requirements of the teaching profession. In addition, this program promotes an understanding of personal, interpersonal, academic, and ethical requirements of the teaching profession. This program culminates with an intensive one-semester internship experience, which allows student- teachers to apply current

methodologies of teaching, learning and assessment. The program provides the student- teacher with the opportunity to develop skills in planning, instruction, assessment, communication, and classroom management. The Diploma in Education aims to foster professionalism and a commitment to the standards required by the Secondary Curriculum.

MASTER DEGREE PROGRAM

1. Master in Educational Leadership
Program Mission Statement
The Master of Education in Educational Leadership is a graduate program offered by the University of Belize in collaboration with the Commonwealth of Learning. The program, comprised of seven courses and a thesis, is tailored to the Belizean context and is designed on the premise that school leaders remain of crucial importance for continual improvements in education. Consequently, this MEd will provide school leaders with competencies to develop and foster learning organizations with a shared mission driven by informed sustainable initiatives for meaningful educational change.

6.1.3 REGIONAL LANGUAGE CENTER

Mission
The Regional Language Center (RLC) delivers high-quality, tailored, and accessible language programs designed to foster effective communication and promote integration at the national, regional, and international levels.

Vision
To transform the Regional Language Center (RLC) into a leading platform for language integration and intercultural collaboration between Spanish-speaking Central America and the English-speaking Caribbean - fostering mutual understanding, promoting cultural exchange, advancing academic partnerships, and strengthening regional unity.

About the Regional Language Center
The Regional Language Center (RLC) Offers certificate programs catering to international students wishing to pursue conversational skills in a second language, namely English (Intermediate or Advanced) or Spanish. The RLC also provides the University community with all necessary Spanish courses to satisfy respective program requirements and UB General Education Core Requirements.

The Regional Language Center (RLC) began in 1978 with the launch of the English as a Second Language (ESL) program at the Belize College of Arts, Science and Technology. This institution later evolved into the University College of Belize in 1986 and eventually into the University of Belize (UB) in the year 2000. That same year, with generous support from the Republic of China (Taiwan), a state-of-the-art $2.3 million facility was constructed on the Belmopan campus—now the central hub of UB. Today, the RLC stands as a modern, well-equipped center for second language learning, serving Belize and the wider Central American and Caribbean regions.

The RLC is committed to breaking down language barriers and fostering stronger ties with the global community. Through comprehensive, high-quality language programs and services, we empower

individuals and institutions to communicate effectively across cultures and borders, enabling meaningful global connections and partnerships.

Our mission is to build a more interconnected world, one where linguistic diversity is not only embraced but harnessed as a catalyst for mutual understanding and shared development. The RLC actively promotes integration, collaboration, and cooperation in the economic, social, cultural, political, and educational advancement of the Central American and Caribbean regions. By engaging with the global community and facilitating cross-cultural communication, the RLC plays a vital role in enhancing both national and international development.

CERTIFICATE PROGRAM

1. Certificate in English as a Second Language
Program Description
The Certificate in English as a Second Language (CESL) is a program designed for Belizean and international students who want to live and study in an English-speaking country/environment, and for those who want to improve their personal, academic and professional skills in English. This program focuses on improving students' communications skills (conversation, reading and writing), while learning about the uniqueness of the Belizean culture and society. The program hosts a diverse student population from several countries. This cultural diversity enhances the opportunities for linguistic and cultural exchange.

The ESL Program at the RLC
RLC is Belize's mechanism for bridging the language barriers in the region. The RLC offers many specialized foreign language courses in English and other languages to cater to the requirements of our national and international clients. The 10-month English as a Second Language Program is designed to enhance the English competency, regardless of their current proficiency. Individuals with basic to advanced proficiency in English may apply.

The ten-month CESL program focuses on strengthening learners' proficiency in reading, writing, listening, and speaking skills in English. All RLC language instructors emphasize practice and design coursework to encourage a practical application of knowledge; this includes a mandatory 60-hour language internship program for eligible students.

During the first week of classes, all new students will be required to attend an orientation session on the expectations and methodology of the program. Each student will be assigned an academic advisor to offer advice and orientation throughout their studies. At the end of the ten-month program, students will receive a certificate of completion from the University of Belize after completing the course.

Services Offered
The Regional Language Center (RLC) of the University of Belize has a long history of providing individualized services and a learning environment that maximizes the learner's chances for cultural immersion, language practice, and personal development.

6 FACULTIES AND DEPARTMENTS

1. Language Courses

- English courses (TOEFL preparation, English for Specific Purposes, etc.)
- Spanish courses (language & culture, and Spanish for Specific Purposes etc.)
- Mandarin courses (language & culture)

2. Translation Services

The Regional Language Center (RLC) offers professional translation services to support clear and accurate communication across languages. Services offered are:

- English-Spanish
- Spanish-English
- Mandarin-English
- English-Mandarin

The University of Belize ESL Scholarship Program Overview

The University of Belize, in partnership with the Ministry of Education and Cultural Science and Technology, offers an annual scholarship offer for an intensive certificate program in English as a Second Language. This ten-month certificate program is offered at the Regional Language Center of the University of Belize from January to October.

The university offers this program on behalf of the Government of Belize, which remains the scholarship program sponsor. The scholarship covers all tuition, registration fees, graduation participation fees and required teaching materials.The scholarship also provides a monthly stipend to help defray housing expenses.

Intended Beneficiaries

Currently the allocation of offers for the CESL scholarships are as follows:

- 20 scholarships for Mexico
- 5 scholarships for Colombia
- 7 scholarships for Panama
- 8 scholarships for Cuba
- 8 scholarships for Taiwan
- 5 scholarships for El Salvador
- 3 scholarships for Honduras
- 5 Scholarships for Venezuela

6 FACULTIES AND DEPARTMENTS

FULL-TIME FACULTY IN THE FACULTY OF EDUCATION AND ARTS		
Last Name	**First Name**	**Degree**
Aguilar	Erica	Doctor of Philosophy
Augustine	Tracey	Master in Educational Leadership
Cal	Angel	Doctor of Latin American History
Chun	Rebecca	Master of Education
Coye	Theresa	Master of Arts
Cruz	Lugie	Master of Arts
DeShield	Christopher	Doctor of Philosophy
Faber	Dwight	Master of Education
Fernandez	Gretchin	Master in Education
Forman	Bronwen	Master of Arts
Guerra	Ubaldimir	Master of Arts
Guzman	Aaren	Master of Arts
Hoare-Perera	Melissa	Master of Arts
Jones	Jeneva	Master of Arts in Education
Kelly	Ivory	Master in English
Kile	Lisa	Master of Education
Lucas-Usher	Thisbe	Doctor of Philosophy
Manzanero	Olga	Master of Education
Marfield	Randy	Doctor of Philosophy
McFadzean	Ashley	Master of Arts
McKay	Maxine	Doctor of Education
Mucul	Guadencio	Doctor of Philosophy
Portillo	Orlando	Master of Arts
Quiroz	Janeen	Doctor of Philosophy
Ramirez	Lisa	Master in English
Roches	Jinee	Master of Science
Stuart	Kimberly	Master of Arts in Teaching
Thomas	Karyn	Master of Education
Tillett	Germaine	Master of Education
Torres	Feliciana	Master of Education
Tucker	Kevin	Doctor of Education

Tun	Nadine	Master of Education
Tzib	Delmer	Master of Arts
Vairez Jr.	Mathias	Doctor in Education Leadership
Villanueva	Vilma	Master of Arts
Williams	Deborah	Doctor of Philosophy
Young	June	Doctor of Education

6 FACULTIES AND DEPARTMENTS

6.2 FACULTY OF MANAGEMENT AND SOCIAL SCIENCES (FMSS)

MISSION
The Faculty of Management and Social Sciences provides professional and innovative business training to its clients with the view of achieving excellence in teaching, service, and research.
Through a focused partnership with our stakeholders, the FMSS will provide leadership in quality education to assist in Belize's national development.

VISION
The Faculty of Management and Social Sciences will emerge as the leader in higher education in Management and Social Sciences by fostering a climate of entrepreneurship, sustainable environmental practices and strategic partnerships in shaping and responding to national developmental priorities.

ASSOCIATE DEGREE PROGRAMS

1. Associate of Science in Business Science
Program Description
The Associate of Science in Business Science develops graduates with the relevant skills and competencies for them to perform effectively in entry and supervisor level positions in new and emerging businesses locally, regionally and internationally. Graduates will be highly structured in the principles, concepts, techniques and knowledge equipped for a competitive, innovative national and global economy.

2. Associate of Science in Tourism Studies
Program Description/Mission
The Associate in Tourism Studies program is Belize's premier associate's degree program delivering relevant and contemporary tourism and hospitality content to students. The approach to learning is one that utilizes best practices in tertiary education in an effort to exceed the expectations of the students.

3. Associate of Science in Criminal Justice and Criminology
Program Description
The Associate of Science in Criminal Justice & Criminology program is the foundation of the Bachelor in Criminal Justice and Criminology program. It introduces students to the criminal justice system, the core theories of crime and justice and the multidisciplinary foundations of the disciplines of criminal justice and criminology. The program provides an overview of theories, issues and research in causes and trends of crime. Students can expect to examine the concept of justice in society. The effects and responses to crime will be examined, with a focus on Belizean society. In this program, students will gain knowledge of the functions of law enforcement, detention, judiciary, corrections, and juvenile justice, probation and parole systems.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Science in Accounting
Program Description/Mission
The Bachelor's Degree in Accounting is aimed at providing students with quality educational

opportunities, to explore and disseminate knowledge in the area of accounting through research and teaching and to provide relevant service to the community.

2. Bachelor of Science in Tourism Management
Program Description/Mission
The mission of the Bachelor of Science in Tourism Management is to prepare students for professions in hospitality and tourism including lodging, events and conventions and destination services management, food service, travel and tourism, financial management, and technology, and recreation related industries. The statement to this point seems to be repeating item 7 above. The educational mission of the program is to provide students with the knowledge, skills, and ability (values and attitudes?) to identify opportunities and challenges in the hospitality and tourism industry, and to apply creative decision techniques in responding to those opportunities.

3. Bachelor of Science in Public Sector Management
Program Description/Mission
To provide superior education in public sector management and prepare interested students for a career in public sector, non-profit sector, and even in the private sector.

4. Bachelor of Science in Business Administration (majors: Finance, Management or Marketing)
Program Description
The Bachelor's Degree in Management is geared toward training students and exposing them to various areas of management and entrepreneurship. Additionally, students are provided with the necessary skills to be competitive and successful in the business environment. The program provides an in-depth study in business and management and gives students a strong foundation for further studies, should they wish to advance their business education in the future.

5. Bachelor of Science in Criminal Justice and Criminology
Program Description
The Bachelor of Science in Criminal Justice & Criminology examines the criminal justice system. The undergraduate program disseminates and fosters critical analysis of functions, issues, and interactions of a wide variety of agencies, institutions and roles that comprise the justice system. It introduces students to theories, issues and research relating to crime, causation and rehabilitation of offenders. The program provides students with the critical thinking skills necessary for the consumption and production of criminological research, and prepares them to effectively function within the justice system, institutions that interface with the justice system, or to pursue graduate studies.

MASTER DEGREE PROGRAM

1. Master of Business Administration
Program Description
The mission of this program is to prepare graduates for leadership positions at senior management and executive level in Belize, the Caribbean and the international business arenas. Students will be prepared to make greater contributions to the management of their existing organizations and be capable of developing successful and satisfying careers in any endeavor.

6 FACULTIES AND DEPARTMENTS

FULL-TIME FACULTY IN THE FACULTY OF MANAGEMENT AND SOCIAL SCIENCES		
Last Name	**First Name**	**Degree**
Andrews	Florence	Doctor of Philosophy
Avila	Deserie	Doctor of Business Administration
Castillo	Philip	Doctor of Philosophy, Development Studies
Ezeofor	Eugene	Master of Philosophy
Geban	Kevin	Master of Philosophy
Geban	Marceluz	Master of Business Administration
Gladden	Charles	Master of Business Administration and CPA
Hachmann	Frank	Master of Tourism Management
Lara	Amelia	Master of Business Administration
Lewis	Romaldo	Doctor of Business Administration
Mano	Avekadavie	Doctor of Philosophy, Criminal Justice & Criminology
Martinez	Cecilia	Master of Business Administration
Mendez	Kathrine	Master of Business Administration
Middleton Jr.	Gilroy	Doctor of Philosophy, Marketing
Pascascio	Audrey	Master of Business Administration
Quetzal	Xunan	Master of Science, Psychology
Saldivar	Jennifer	Master of Public Sector Management
Star	Merlin	Master of Science, Quantitative Psychology
Tewes-Ryan	Stacy	International Master of Business Administration
Thiagarajan	Somanadevi	Doctor of Philosophy, Finance
Watler	Bernard	Doctor of Education, Educational Leadership
Yearwood	Sharret	Master of Science, Tourism

6 FACULTIES AND DEPARTMENTS

6.3 FACULTY OF HEALTH SCIENCES (FHS)

MISSION
The Faculty of Health Sciences is committed to the development of competent and caring practitioners who uphold the dignity and rights of all, embracing the use of current technology and a multi-disciplinary educational system that emphasizes leadership, professional standards, knowledge creation, dissemination, and excellence.

VISION
The Faculty of Health Sciences will educate practitioners in all areas of specialty at the undergraduate, graduate and continuing education levels to meet the healthcare and social needs of the nation.

6.3.1 ALLIED HEALTH DEPARTMENT

BACHELOR DEGREE PROGRAMS

1. Bachelor of Science in Medical Laboratory Science
Program Description
The Bachelor of Medical Laboratory Science administered by the Faculty of Health Science aims to equip candidates with knowledge and skills that will enable them to render quality medical laboratory services that conform to regional and international standards. Additionally, the program seeks to develop critical thinkers who can communicate effectively, and who make informed decisions, demonstrating strong ethical and moral values.

Entry requirements include a completion of all health science pre-requisite courses, or possession of an Associate Degree in Science or completion of a high school diploma with four (4) C.X.C passes, including English, Math, Biology, and Chemistry.The first two years include general and support core courses. Years 3 and 4 are dedicated to professional courses where students will have the opportunity to develop practical/clinical competencies through lab courses and internships.

2. Bachelor of Pharmacy
Program Description
The Bachelor of Pharmacy program is designed for students who have successfully completed all health science prerequisite courses, hold an Associate Degree in Science, or possess a high school diploma with at least four (4) C.X.C. passes, including English, Mathematics, Biology, and Chemistry.

The first two years of the program focus on foundational health science courses, which provide general knowledge and support for the core curriculum. Years three and four emphasize professional core courses, while year five is dedicated to building practical and clinical competencies. During the final year, students are required to complete Supervised Internships I and II.

The program aims to produce ethical, competent, and knowledgeable graduates who are prepared to deliver high-quality pharmaceutical services that conforms to both national and international standards.

It emphasizes the development of critical thinking, effective management, educational skills, and strong communication—qualities essential to meeting the evolving pharmaceutical needs.

6.3.2 NURSING DEPARTMENT

Mission
The Department of Nursing is wholly committed to the development of competent and caring practitioners respectful of human rights and dignity; embracing a multidisciplinary system that emphasizes excellence in leadership and management, professional standards, knowledge creation and dissemination, nursing education and clinical practice.

Vision
Consistent with the Faculty of health Sciences, the Department of Nursing will educate nurse practitioners at the undergraduate, graduate and continuing education levels to meet the nursing and health care needs of the nation; incorporating socio-cultural factors, scientific and technologic advances, developmental strategies, knowledge creation and dissemination; producing nurse practitioners committed to national development and social change.

BACHELOR DEGREE PROGRAM

1. Bachelor of Science in Nursing
Program Description
This Bachelor of Science in Nursing is a four-year program consisting of 141 credits which comprises 36 credits of general core courses, 28 credits of supporting core courses, and 77 credits of professional core courses. This program aims to prepare nurses who have knowledge of the profession and how they can influence the delivery of nursing and health care. The first and second year of the program focus on the general courses required by the university and supporting courses required for the program. Some professional core courses are also introduced in the second year. While only one supporting course is offered in third year, the main focus of the last two years is the professional core courses whereby the concepts and theories learnt earlier are integrated and applied. Students are exposed to various clinical skills, nursing theories and models different nursing roles in a variety of clinical settings.

CERTIFICATE PROGRAMS

1. Certificate in Midwifery
Program Description
The Certificate of Midwifery is a full time post-basic program that is offered for three semesters. The program develops the graduate nurse as a competent practitioner in midwifery care. It comprises a total of 54 credits to include both theoretical and clinical components providing students an opportunity to integrate nursing concepts in the care of the childbearing woman. All courses within the program are professional core courses of which a minimum of C+ must be obtained for successful completion. Semesters I and II focus on the normal prenatal, intranatal and postnatal period while semester III focuses on the complications of pregnancy and the newborn. There are two Supervised Clinical Experiences for a total of 800 clinical hours. On successful completion of the program, graduates are awarded a Certificate in Midwifery and are eligible to write the licensure examination set by the Nurses'

and Midwives Council of Belize.

2. Certificate in Practical Nursing
Program Description
The Certificate in Practical Nursing is a full time eighteen (18) months program consisting of eleven (11) credits of supporting courses and forty-three (43) credits of professional courses. It is offered over three semesters. In the first two semesters, students are exposed to both theoretical and laboratory experiences. Students who successfully complete the first two semesters must successfully complete First Aid and Basic Life Support in the summer before progressing into the Supervised Clinical Experience in semester three. For this experience, students are placed in a variety of clinical settings where they are expected to perform various clinical skills, apply nursing theories and model different nursing roles.

6.3.3 SOCIAL WORK DEPARTMENT

Mission
The Social Work Program is dedicated to the development of competent and generalist social work practitioners, who are caring, respectful of human rights and dignity, embrace culturally sensitive commitment to social change, advocate for vulnerable populations, and are committed practitioners who serve society at the local, national, and international levels.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Science in Social Work
Program Description
The Program is designed to equip graduates with generalist social work skills applicable at the micro (individual), mezzo (dyad, family, or group), and macro (system, societal, or organizational) levels. It aims to prepare professionals to work with diverse populations across the social welfare, education, and health sectors. The Program seeks to enhance the country's human resource capacity to address the needs of the social welfare sector. By doing so, it aims to alleviate poverty, oppression, and discrimination through the delivery of effective social work services and practices.

6 FACULTIES AND DEPARTMENTS

FULL-TIME FACULTY IN THE FACULTY OF HEALTH SCIENCES		
Last Name	**First Name**	**Degree**
Abubakar	Yusuf	Master of Science
Bevans	Lecia	Masters of Science in Nursing Education | Registered Nurse Registered Midwife | Registered Nurse Anaesthetist
Bevans	Omie	Doctor of Medicine
Candy	Marie	Doctor of Nursing Practice
Escalente	Kamryn	Master of Science Molecular Medicine
Espadas	Isidora	Master of Science in Nursing Administration | Bachelors of Science in Nursing Education | Registered Nurse | Registered Midwife
Flowers-Jones	Angela	Doctor of Social Work
Guerra	Melinda	Masters of Science in Public Health Nursing | Registered Nurse | Registered Midwife
Harris-Thurton	Lydia	Master of Science in Pharmacology
Hudson	Li-Horng Jou	Bachelor Medical Laboratory Science
Husaini	Danladi	Doctor of Philosophy Health Science
Matute	Ann	Bachelors of Science in Public Health Nursing | Masters of Science in Public Health | Registered Nurse | Registered Midwife
Nwachukwu	Innocent	Master of Science Medical Microbiology
Pat	Angel	Bachelor Medical Laboratory Science
Pennill	Ava	Master of Arts in International Child Welfare
Requena-Lopez	Patricia	Master of Education
Reynolds	Rhondine	Bachelor of Pharmacy
Salazar	Diomar	Masters of Science in Medical Microbiology
Sho	Caramyn	Master in Business Administration | Bachelor of Science in Nursing | Registered Nurse | Registered Midwife
Simplis	Karen	Master of Social Work

Swift-Castillo	Leolin	Doctor of Philosophy in Nursing Science
Uppala	Kishan Arudra	Doctor of Philosophy in Pharmacy
Young	Melissa	Bachelor of Science in Nursing | Registered Nurse

6 FACULTIES AND DEPARTMENTS

6.4 FACULTY OF SCIENCE AND TECHNOLOGY (FST)

MISSION
The Faculty of Science and Technology is committed to promoting scientific, technological and environmental advancements that contribute to national development. Through quality instruction, research, and service the Faculty will develop responsible, innovative and productive citizens.

VISION
The Faculty of Science and Technology is a center of excellence in natural and applied science that promotes national development through teaching, research, service and collaboration.

6.4.1 AGRICULTURE DEPARTMENT

Mission
The Agriculture Department is here to nurture and educate agricultural leaders who are economically, socially and environmentally conscious of their contribution to progress through education, research, implementation of climate smart agricultural practices, and entrepreneurial skills.

Vision
The premiere climate-smart agriculture institute of Belize, focused on education and research for innovative and sustainable solutions for a resilient agriculture sector.

ASSOCIATE DEGREE PROGRAMS

1. Associate of Science in Applied Climate Smart Agriculture
Program Description
In August 2021 the University restructured its Associate Degree Applied Agriculture to a more Climate Smart Approach. The new Associate in Climate Smart Agriculture, incorporates different courses such as Agroforestry, CGIS, Agri-business among others. This program aims to address the challenges of climate change on agriculture in Belize by focusing on workforce development and climate-smart farming practices. The updated objectives include current trends in climate-smart agriculture, emphasizing hands-on experiences, collaboration with industry, and competency-based training. The Associate Degree in Applied Climate Smart Agriculture aims to equip students with essential skills and knowledge on climate resilience and sustainability, fostering critical thinking and problem-solving skills for careers in farm management, extension services, and sustainable agricultural practices.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Science in Applied Agriculture
Program Description
The University of Belize introduced the Bachelor of Applied Agriculture Science program in 2018 in response to regional and national demands for sustainable agriculture. It supports the university's objectives of tackling important problems like sustainable development, food security, and climate

change resilience. The curriculum focuses on Climate Smart Agriculture and an ecosystem-based approach to food production, building on the Associate Degree in Applied Agriculture, which was revised in 2021 to the Associate Degree in Climate Smart Agriculture.Graduates of this program are prepared to tackle new issues in agriculture and support sustainable development in a global setting.

The following goals help the university accomplish its objectives:

- Providing education that equips students with skills and knowledge relevant to sustainable agricultural development.
- Emphasizing research and innovation, particularly in climate-smart agriculture.
- Integrating practical and hands-on training, ensuring students can apply their learning in real-world agricultural settings.
- Promoting entrepreneurship and agribusiness marketing, in line with the university's goals of fostering national economic development.

6.4.2 ENGINEERING DEPARTMENT

Mission
The Faculty of Science & Technology is committed to promoting scientific, technological and environmental advancements that contribute to national development. Through quality instruction, research, and service the Faculty will develop responsible, innovative and productive citizens.

Vision
The Engineering Department envisages the development of a center of excellence and high-quality programs of study using adequate technology and delivered by experienced and qualified faculty.Students accepted into the Engineering Department are expected to have a strong foundation in the Natural Sciences and Mathematics. The program will provide skill and discipline that will enable graduates to make a positive impact on the working environment and be able to function as entrepreneurs in the community. Graduates will be able to matriculate readily to other levels of certification both nationally and internationally.

ASSOCIATE DEGREE PROGRAMS

1. Associate of Science in Architectural Technology
Program Description
The Architectural Technology program provides students with the opportunity to pursue a challenging career in Architecture. It also provides individuals with the knowledge and skills that will lead to employment and advancement in the field of architectural technology. The course work enables the graduate to work in architectural or building construction related jobs or continue toward an advanced degree in the associated field of technology.

The Architectural Technician will be involved in work requiring a knowledge of drafting, construction materials, mechanical and structural systems, site and building design fundamentals, estimating, building codes, specifications, presentation methods and computer application.

2. Associate of Science in Civil Engineering Technology
Program Description
The Civil Engineering Technology Program provides students with the opportunity to pursue a challenging career in Civil Engineering Technology. This Program provides its graduates with the knowledge and skills that will lead to employment as a technician. Civil Engineering Technicians assist Civil Engineers in the planning and construction phases of building highways, bridges, buildings, dams, wastewater treatment systems and other public-use structures. Additionally, the program prepares students to further their studies in the Civil Engineering Technology field.

3. Associate of Science in Mechanical and Electrical Engineering
Program Description
The Mechanical and Electrical Engineering program envisages the use of quality technology which is delivered by experienced and qualified faculty. The program will provide a strong foundation in engineering principles, skills and discipline that will enable graduates to make a positive impact on the working environment as technicians or entrepreneurs in the community. Graduates will be able to matriculate readily to higher levels of certification both nationally and internationally.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Technology in Construction Engineering
Program Description
The Bachelor of Technology in Construction Engineering (BTCE) is a technical degree offering construction courses aimed at preparing students to become industry professionals. The courses delivered create skills that are highly marketable and offer on the job training to help students garner the necessary field experience. In addition to its emphasis on practical skills, the Program was also developed to have transferable credits to allow students to enter internationally accredited Universities ensuring that students have the necessary skills and knowledge to excel both in the field and academically.

6.4.3 MATH, PHYSICS AND INFORMATION TECHNOLOGY DEPARTMENT

Mission
The Department of Mathematics, Physics and Information Technology provides quality teaching, research, and service to advance scientific and technological development, preparing innovative and responsible contributors to national development.

Vision
The Department of Mathematics, Physics and Information Technology will excel in its disciplines and advance national development through innovative teaching, research, service, and collaboration.

ASSOCIATE DEGREE PROGRAMS

1. Associate of Science in Information Technology
Program Description
The AINT program is a two-year program that seeks to deliver quality courses using modern

technology, delivered by qualified and experienced faculty. The program will provide the knowledge, skills and discipline that will enable graduates to make a positive impact in their working environment and be able to function as entrepreneurs in their community. Graduates will be able to matriculate readily to higher levels of education both nationally and internationally.

2. Associate of Science in Mathematics
Program Description
The Associate degree in Mathematics at the University of Belize is a two program that provides students with an appreciation for the history and development of various fields in mathematics. Students will be equipped with the ability to approach any problem, whether industrial, technological, social, or economic in nature, from an analytical perspective using a myriad of tools and techniques to arrive at an optimum solution, given all the criteria and constraints are met. This service will provide the Belizean society with skilled and trained critical thinkers capable of advancing industry, technology, and the economy, increasing international competitiveness, businesses and services, employment, national awareness, and volunteerism in our country.

3. Associate of Science in Mathematics and Physics
Program Description
The Associate Degree in Physics and Mathematics is a two-year program that prepares students to successfully pursue Bachelor's degrees in Physics, Mathematics and Engineering and/or for employment in related fields. The program will promote critical thinkers and life- long learners, who will be active and effective citizens contributing to the development of Belize.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Science in Information Technology
Program Description
This program is a two plus two program that seeks to deliver quality courses using modern technology, delivered by qualified and experienced faculty. The program allows students to exit after the first two years with an Associate degree in IT. Students achieve their Bachelor's degree in IT after successfully completing the third and fourth years. The program will provide the knowledge, skills and discipline that will enable graduates to make a positive impact in their working environment and be able to function as entrepreneurs in their community. Graduates will be able to matriculate readily to higher levels of education both nationally and internationally.

2. Bachelor of Science in Mathematics
Program Description
This program is a two plus two program that provides students with an appreciation for the history and development of various fields in mathematics. The program will give students the ability to approach any problem, whether industrial, technological, social, or economic in nature, from an analytical aspect using a myriad of tools and techniques to arrive at an optimum solution, given all the criteria and constraints are met. Students achieve their Bachelor's degree in Mathematics after successfully completing the third and fourth years. This service will provide the Belizean society with skilled and trained critical thinkers capable of advancing industry, technology, and the economy, increasing international competitiveness, businesses and services, employment, national awareness, and volunteerism in our country.

3. Bachelor of Science in Statistics
Program Description
The Bachelor of Science in Statistics is a four-year degree program offered by the Faculty of Science and Technology at the University of Belize. The program in statistics at the University of Belize provides students with the ability to approach any problem, whether environmental, technological, social, or economic in nature, from an analytical perspective, using a myriad of tools and techniques to arrive at an optimum solution, given all the criteria and constraints are met. It provides the Belizean society with skilled and trained critical thinkers capable of advancing industry, technology, and the economy, increasing international competitiveness, businesses and services, employment, national awareness, and volunteerism in our country.

6.4.4 SCIENCE DEPARTMENT

Mission
The Science Department of the University of Belize is dedicated to delivering rigorous, accessible, and relevant education in the natural sciences, grounded in research, fieldwork, and environmental stewardship. We strive to develop confident, critical thinkers and lifelong learners who apply scientific knowledge and ethical values to address Belize's environmental, technological, and societal challenges. Through collaboration with community, national, and international partners, we support sustainable development, foster innovation, and contribute to the wellbeing and resilience of Belize and beyond.

ASSOCIATE DEGREE PROGRAMS

1. Associate of Science in Biology
Program Description
The four-year (2+2) Bachelor's Degree Biology program offered by the Science Department (Biology & Chemistry) Department is an undergraduate program of excellence that will draw recognition and success to our students. Although it is a continuous four-year program, students can complete the first two years and obtain an associate degree in Biology. The program is intended to expose students to the major concepts and rationale of biology, the scientific method, the role of biology and related sub-disciplines in our society, and the importance of biology to the individual. It is a program that will allow students to be able to concentrate in specified areas of biology related to animal science and plant science. The program is designed to assure students' acceptance in chosen careers and/or graduate studies.

2. Associate of Science in Chemistry
Program Description
The four-year Bachelor's Degree Chemistry program (2-year Associates of Science +2-year upper level Bachelor of Science) offered by the Science Department of the University of Belize is an undergraduate program of excellence that will draw recognition and success to our students. The program is intended to expose students to the major concepts and rationale behind chemistry, the scientific method, and the role of chemistry in society. It is a program that will expose students to applied areas of chemistry including the environment, agriculture, forensics, and food industry. The program is designed to ensure students' acceptance in chosen careers, bridging the gap between national needs and capacity, and preparing students for graduate studies.

3. Associate of Science in Biology and Chemistry
Program Description
The two-year Associates Degree in Biology & Chemistry offered by the Science Department is a double major program of excellence that will draw recognition and success to our students. The program is intended to meet the first two years of required courses for students planning a career in biology and/or chemistry. This program includes foundation courses in biology, chemistry, as well as the general course requirements in humanities and social sciences (GC's).

4. Associate of Science in Chemistry and Mathematics
Program Description
The two-year Associates Degree in Chemistry & Mathematics offered by the Science Department is a double major program of excellence that will draw recognition and success to our students. The program is intended to meet the first two years of required courses for students planning a career in chemistry and/or mathematics. This program includes foundation courses in chemistry, and mathematics as well as the general course requirements in humanities and social sciences (GC's).

5. Associate of Science in Natural Resource Management
Program Description
The NRM Associate of Science program seeks to establish a structured but flexible program that provides students with a balance of theoretical and practical components through traditional classroom lectures and project-based field courses. Students are trained as managers of Belize's marine and terrestrial natural resources.

6. Associate of Science in Pre-Medical Science
Program Description
The two years Associates Degree in Pre -Medical Science program offered by the Science Department is a program of excellence that will draw recognition and success to our students. The program is intended to meet the first two years of required courses for students planning a career in medicine. The premedical program includes foundation courses in biology, chemistry, mathematics and physics as well as the general course requirements in humanities and social sciences (GC's). The program enables students to transfer to the Bachelors of Medicine and Bachelors of Surgery (MBBS) degree offered by the University of Belize School of Medicine. The program is also a pathway to enter both the Bachelor's Degree in Biology, Bachelor's Degree Chemistry programs, Bachelors in Nursing and Bachelors in Medical Laboratory Technology.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Science in Biology
Program Description
The four-year (2 +2) Bachelor's Degree Biology program offered by the Science Department (Biology & Chemistry) Department is an undergraduate program of excellence that will draw recognition and success to our students. Although it is a continuous four-year program, students can complete the first two years and obtain an associate degree in Biology. The program is intended to expose students to the major concepts and rationale of biology, the scientific method, the role of biology and related sub-disciplines in our society, and the importance of biology to the individual. It is a program that will allow

students to be able to concentrate in specified areas of biology related to animal science and plant science. The program is designed to assure students' acceptance in chosen careers and/or graduate studies.

2. Bachelor of Science in Marine Biology
Program Description
The four-year program for a Bachelor's of Science Degree in Marine Biology offered by the Science Department, is a degree of excellence and one of the signature undergraduate programs of the Faculty of Science. It will capitalize on the extensive natural laboratory available on its doorsteps; second to only the Great Barrier Reef, using the Calabash Caye Field Station, the University's first and oldest marine field station. Through a dynamic and applied program that uses the wealth of natural assets on hand, students will obtain a quality, applied degree that will make them more competitive and will open the door to more development opportunities. The degree will enable students to gain broad and applied knowledge and perspective on the biology of marine organisms and their ecology, so as to prepare them to pursue higher studies, seek employment in marine based industries, and engage in research or entrepreneurial work in the marine sector. The course of study will prepare graduates to meet the demands of the nation and region with a strong foundation in biological principles and very specific marine related topics.

3. Bachelor of Science in Natural Resource Management
Program Description
The NRM Bachelor of Science program seeks to establish a structured but flexible program that provides students with a balance of theoretical and practical components through project-based field courses. Students are trained as managers of Belize's marine, freshwater and terrestrial natural resources.

4. Bachelor of Science in Chemistry
Program Description
The four-year Bachelor's Degree Chemistry program (2-year Associates of Science +2-year upper level Bachelor of Science) offered by the Science Department of the University of Belize is an undergraduate program of excellence that will draw recognition and success to our students. The program is intended to expose students to the major concepts and rationale behind chemistry, the scientific method, and the role of chemistry in society. It is a program that will expose students to applied areas of chemistry including the environment, agriculture, forensics, and food industry. The program is designed to ensure students' acceptance in chosen careers, bridging the gap between national needs and capacity, and preparing students for graduate studies.

6 FACULTIES AND DEPARTMENTS

FULL-TIME FACULTY IN THE FACULTY OF SCIENCE AND TECHNOLOGY		
Last Name	**First Name**	**Degree**
Aguilar	Apolonio	Doctor of Philosophy in Organic Chemistry
Ake	Josue	Master of Science
Aldana	Gerardo	Doctor of Philosophy - Focus on Soil Science
Arzu	Arieni	Master in Mathematics
Augustine	Lloyd	Master in Mechatronics Automation Engineering and Management
Barrientos	Eduardo	Doctor of Applied Marine Bioscience
Bautista	Anthony	Doctor of Philosophy
Cano	Antonio	Master of Science
Carrillo	Lloyd	Bachelor of Architecture
Carrillo	Alex	Master of Science, Civil Engineering
Castillo	Cecy	Master of Science (Study Leave)
Cayetano	Emeri	Master of Architecture
Chan	Joselito	Master of Science, Electrical Engineering
Lopez Cornelio	David	Doctor of Bio-Production Science
Daniels	Dion	Doctor of Agricultural Sciences
Dami	Timothy	Master of Science
Diego	Cleavon	Master of Science, Electrical Engineering
Donis	Jenilee	Bachelor of Science
Ferguson	Ainsley	Master of Science
Garcia	David	Master in Design of Information Systems
Garcia	Eden	Doctor of Marine Biology
Garnett	Fay	Masters in Agroforestry and Sustainable Agriculture
Hua	Monica	Master of Science
Jones	Jeffrey	Master of Science, Construction Engineering
Juan	Daniel	Masters in Animal Science
Lewis	Steven	Master of Arts
Lewis	Dalwin	Master in Information System & Application

Link	Karen	Master of Science
Magana	Joaquin	Master of Science
Medina	Manuel	Master of Arts
Mendez	Canid	Master of Science in Entomology
Pasos	Julianne	Master of Science
Ramirez	Andres	Master of Science
Robertson	David	Doctor of Philosophy
Robinson	Melissa	Master of Science
Rogers	Arlenie	Doctor of Philosophy
Ryan	Kieran	Doctor of Philosophy
Sanchez	Ina	Masters in Plant, Environmental and Soil Sciences with a minor in Experimental Statistics
Sangster	Stephen	Master of Science in Chemistry (Leave - Fulbright Scholar)
Sylvester	Vernelle	Master in Computer Science
Thomas	Latha	Doctor of Philosophy in Zoology
Umana	Amilcar	Master of Science
Urbina	Joaquin	Doctor of Philosophy in Chemistry
Valladarez	Jair	Master of Science
Williams	Jonathan	Doctor of Philosophy in Physics
Young	Adelia	Master of Education

6 FACULTIES AND DEPARTMENTS

6.5 UNIVERISITY OF BELIZE SCHOOL OF MEDICINE

MISSION
The University of Belize School of Medicine is wholly committed to educating and developing exemplary, caring, and service-oriented practitioners, leaders, and innovators in medicine, scholars in healthcare delivery research with an emphasis on multidisciplinary collaboration, and adopters of innovative technology to advance the country's healthcare sector.

VISION
The University of Belize School of Medicine will be the nation's primary, accredited medical education institution that will transform the healthcare industry/system.

BACHELOR DEGREE PROGRAMS

1. Bachelor of Medicine, Bachelor of Surgery
Program Description
The Bachelor of Medicine, Bachelor of Surgery (MBBS) at the University of Belize School of Medicine is a five-year, full-time undergraduate professional program designed to educate exemplary, caring, and service-oriented physicians. Delivered through face-to-face and blended learning across UB's Belmopan and Belize City campuses and affiliated hospitals, the curriculum integrates basic sciences, clinical medicine, research, and community health. Students gain progressive exposure to anatomy, physiology, pathology, pharmacology, medical ethics, and public health, leading into clerkships in family medicine, surgery, pediatrics, obstetrics and gynecology, internal medicine, psychiatry, and community health. Emphasizing evidence-based practice, innovation, and patient advocacy, the program prepares graduates to serve in diverse healthcare settings and resource-constrained environments. Upon successful completion of the internship, graduates are eligible for medical licensure in Belize and CARICOM and may pursue residency training or international board examinations.

6 FACULTIES AND DEPARTMENTS

FULL-TIME FACULTY IN THE UNIVERSITY OF BELIZE SCHOOL OF MEDICINE			
Last Name	**First Name**	**Degree**	**Professional License**
Bautista	Karen	MSc. Environmental Management, PgDip. Medical Education	
Coye	Adrian	MBBS, DM, (CTH) (UWI), FRCS (CTH), FCCS	
Helmond	Shah	MD	Medical Practitioner
Johnson	Lisa	MBBS, DM, (SURG) (UWI), FCCS	Medical Practitioner, General and Trauma Surgeon
Moguel	Anya	MD, MSc.	Medical Practitioner, Pallistivist
Montero	Luis	BSc. Biology	
Westby	Keisha	MD, Pg, Dip. TB Prevention and Control (PAHO)	Medical Practitioner
Zaiden	Adelita	MD, ORL (Mexico), PgDip. Medical Education, Hospital Management and Administration and Human Resources	Medical Practitioner, Otolaryngology

6 FACULTIES AND DEPARTMENTS

6.6 OFFICE OF OPEN AND DISTANCE LEARNING

MISSION
The office of the Open and Distance Learning (ODL) provides stakeholders: students, businesses, working professionals, both national and international, with quality non-credited and credited courses and programs.These courses and programs are developed internally and also in partnerships with other institutions and businesses.

VISION
The Office of Open and Distance Learning will be the University's hub for the development of quality credited and non-credited Continuing and Higher Education programs and courses. It will house the human and technical resources needed for the efficient management of online course development and delivery across the university.

PRE-UNIVERSITY EDUCATION (PUED)
The University of Belize is steadfast in its commitment to equitable access to quality education and the academic success of all learners, including those who may not yet be fully prepared for university-level coursework. To support this mission, the Office of Open and Distance Learning (ODL) offers Pre-University Education (PUED).

PUED provides foundational, non-credit-bearing courses designed to strengthen students' core academic competencies and prepare them for success in credit-bearing undergraduate studies. The curriculum includes essential subjects such as:

- Developmental Mathematics
- Developmental Biology
- Developmental Chemistry
- Developmental Physics
- Pre-College English I
- Pre-College English II
- Study Skills
- Microsoft Office Applications

These courses are carefully structured to build critical thinking, academic literacy, quantitative reasoning, and digital proficiency skills necessary for thriving in higher education.

Recognizing the diverse needs and schedules of learners, PUED courses are delivered through face-to-face and bichronous instructional formats, blending real-time interaction with flexible online components. This approach ensures accessibility while upholding the University of Belize's high academic standards.

Through PUED, the University of Belize empowers students to bridge academic gaps, gain confidence, and transition successfully into their chosen degree paths, fostering a more inclusive and supportive pathway to higher education.

6 FACULTIES AND DEPARTMENTS

6.7 GRADUATE STUDIES

MASTER OF PHILOSOPHY (MPHIL) – RESEARCH DEGREE (ALL DISCIPLINES)

General Information
The MPhil is offered in a large number of disciplines including but not limited to: Education, Humanities, Social Sciences, Arts, Business, Natural and Environmental Sciences, Health Sciences, Engineering and Agriculture. By introducing candidates to and developing advanced research skills and specialist knowledge this program provides a masters level degree through research focused courses and a transition to employment opportunities, which require a master's level qualification, or further study such as doctoral (PhD) research.

Program Vision:
The MPhil program at the UB will be the program of choice for graduate students to pursue master's level degree through a research-focused program which will contribute to and advance the body of knowledge in chosen disciplines.

Program Mission:
The MPhil program attracts and facilitates committed, responsible graduate students and faculty, working across broad disciplines and with government and business partners, to solve real problems and address community needs through research innovation, publication, dissemination and application.

7 CAMPUSES

7.1 BELMOPAN CAMPUS (MAIN CAMPUS)

Home to every faculty, including the University of Belize School of Medicine, the Belmopan Campus provides students with countless opportunities for learning, research, and personal growth. Facilities include the library, computer labs, the Recreation Center, the Wellness Center, and more. Beyond academics, the campus is alive with culture and community. Our centers, such as the Regional Language Center and the Intercultural Indigenous Language Institute, host events that celebrate Belize's diversity, bringing students together in meaningful and memorable ways. The Belmopan Campus is also the main venue for many of UB's major events, including Science Open Day and various symposiums throughout the year.

Address: Hummingbird Avenue, Belmopan, Belize
Telephone Number: (+501) 822-1000, +501 822-3680
Email Address: communications@ub.edu.bz

7.2 BELIZE CITY CAMPUS

The Belize City campuses offer a wide range of programs, with popular majors such as Social Work, Education, and Business. Along with these academic opportunities, the campuses are also home to important institutes, including the Belize Policy Research Institute, which contributes to national development through research and policy analysis. The campuses provide a vibrant student life with events, activities, and opportunities for engagement. Students also have access to various facilities that support their learning and well-being, making the Belize City campus a dynamic place to study and grow.

Address: University Drive, West Landivar, P.O. Box 990, Belize City, Belize
Telephone Number: (+501) 223-0256, 223-2735, 223-2733
Email Address: communications@ub.edu.bz

7.3 CENTRAL FARM CAMPUS

The University of Belize Central Farm Campus serves as the heart of agricultural education and innovation in Belize. Dedicated to hands-on learning, it provides students with direct experience in crop and livestock production, agribusiness, and applied research. The campus features modern dormitories, a micropropagation laboratory, and a fully operational cafeteria, creating a vibrant residential and academic environment. Students actively participate in flagship events such as the annual Agriculture Open Day, which highlights innovation, research, and community engagement. Through the production and sale of a diverse range of agricultural goods, learners gain valuable real-world exposure to farm management, value addition, and entrepreneurship making Central Farm a true living classroom for agricultural transformation.

7 CAMPUSES

Address: Mile 65 George Price Highway, Central Farm, Belize
Telephone Number: (+501) 824-3775, 824-4934
Email Address: communications@ub.edu.bz

7.4 PUNTA GORDA CAMPUS

The Toledo/Punta Gorda Campus serves as the southern arm of the University of Belize making educational/training programs and professional development opportunities accessible to students and other stakeholders in Southern Belize. Nestled in the heart of southern Belize, this campus offers students a warm and welcoming environment that encourages academic success and personal growth. Programs here focus on Business, Tourism, and Education, providing students in the region with access to quality higher education close to home. Our team of highly qualified, experienced and caring professionals engages students in teaching, outreach service and research using current technology, while endeavoring to meet national development needs through partnership with local, regional and international interest groups. With a peaceful setting and strong sense of community, students are able to enjoy a comfortable and supportive space to study, connect with others, and fully engage in their university experience.

Address: Jose Maria Nunez St., Punta Gorda, Belize
Telephone Number: (+501) 722-0370, 702-2720
Email Address: communications@ub.edu.bz

7.5 ONLINE CAMPUS

The University's Online Campus is a comprehensive digital learning environment designed to extend the institution's academic offerings beyond the physical campuses. It provides students with access to courses, resources, and support services through a secure and user-friendly online platform.

APPENDIX

1 PROGRAM SEQUENCES

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY (FST)
Agriculture Department
Associate in Applied Climate Smart Agriculture (ACSA)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
AAGR1111	Biology of Farm Crops & Livestock	SC	3			
AAGR1131	Principles of Crop Production	PC	3			
AAGR1121	Principles of Livestock Production	PC	3			
CHEM1015	General Chemistry	SC	3			
CHEM1015L	General Chemistry Lab	SC	1			
ENGL1014	College English I	GEC	3	English Placement/ English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement/ Math ATLIB		
Total			**19**			
Year 1 – Semester 2 – January to May						
AAGR1232	Introduction to Soils	PC	3	CHEM1015 CHEM1015L		
AAGR1172	Livestock Nutrition	PC	3	AAGR1121		
AAGR2211	Crop Production I	PC	3	AAGR1131		
AAGR1141	Agriculture Field Practice	PC	6			
CGIS1014	Introduction to Computing and Geographic Information Systems (GIS) for Agriculture and Forestry	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
Total			**21**			
Year 1 – Semester 3 – June to July						
CRTH1014	Critical Thinking	GEC	3			
PHIL1014	Ethics	GEC	3			
Total			**6**			
Year 2 – Semester 1 – August to December						
AAGR2231	Applied Agro-Forestry	PC	3	AAGR1232		
AAGR2252	Crop Production II	PC	3	AAGR2211		

AAGR2261	Value Added Products	PC	3			
AAGR2134	Senior Project I	PC	3	ENGL1025		
AAGR2271	Livestock Production I	PC	3	AAGR1121		
ENGL1035	Composing Process	GEC	3	ENGL1025		
ECON1014	Introduction to Economics	GEC	3			
Total			**21**			
Year 2 – Semester 2 – January to May						
AAGR1152	Agriculture Field & Workplace Practice	PC	6	AAGR1141		
AAGR2262	Introduction to Agribusiness	PC	3	AAGR2261, ENGL 1025, ECON1014		
AAGR2292	Livestock Production II	PC	3	AAGR2271		
AAGR2342	Senior Project II	PC	3	AAGR2134 ENGL1025		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1015		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**21**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**30**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses.**	**51**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**7**
TOTAL			**88**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- Students accepted in the AAGR program in 2020 or earlier may complete their current program or switch to the new one.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- Students must adhere to any additional instructions shared in the student handbook or course outlines while enrolled in the program.
- Students must meet with their advisors at the start of every semester to ensure the program sequence is being followed accordingly.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Engineering Department
Associate Degree in Architectural Technology (AARC)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
ARCH1201	Building Service	PC	2			
ARCH1301	Construction Drafting 1	PC	3			
ARCH1401	Introduction to Architectural Drafting	PC	3			
BLDG1101	Geometrical Drawing	SC	2			
CIVL1101	Properties of Material 1	SC	2			
ENGL1014	College English 1	GEC	3	ATLIB/English Placement		
MATH1151	Algebra	GEC	3	MATH1014/Math Placement		
PHYS1041	Physics for Engineers	SC	2			
Total			**20**			
Year 1 – Semester 2 – January to May						
ACAD1102L	Computer Aided Drafting 1	PC	2			
ARCH1352	Construction Drafting 2	PC	3	ARCH1301		
ARCH1452	Architectural Drafting	PC	2	ARCH1401		
CIVL1252	Mechanics	SC	2	PHYS1041		
CIVL1202	Elementary Surveying 1	SC	2			
CIVL1152	Properties of Material 2	SC	2	CIVL1101		
CRTH1014	Critical Thinking	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**19**			
Year 1 – Semester 3 – June to July						
ARCH2993	Internship (Practicum)	PC	3			
ENGL1025	College English 2	GEC	3	ENGL1014		
Total			**6**			
Year 2 – Semester 1 – August to December						
ACAD2101L	Computer Aided Drafting 2	PC	2	ACAD1102L		
ARCH2401	Special Architectural Problems 1	PC	3	ARCH1352, ARCH1452		
BLDG2301	Measurement & Estimating 1	SC	3	ARCH1301, ARCH1352		
CIVL2451	Structures 1	SC	4	BLDG1252		
CIVL2101	Properties of Material 3	SC	2	CIVL1152		
MATH1201	Trigonometry	SC	3	MATH1151		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
Total			**20**			

Year 2 – Semester 2 – January to May						
ACAD2202L	Computer Aided Drafting 3	PC	3	ACAD2101L		
ARCH2452	Special Architectural Problems 2	PC	2	ARCH2401		
ARCH2552	Environmental Science in Building	PC	3			
BLDG2352	Measurement & Estimating 2	SC	3	BLDG2301		
CIVL2502	Structures 2	SC	4	CIVL2451		
CIVL2152	Properties of Materials 4	SC	2	CIVL2101		
MATH1302	Calculus 1	SC	3	MATH1151,MATH1201		
Total			**20**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**18**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**31**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**36**
TOTAL			**85**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements:** Students who pursue a Bachelor Degree program will need to complete a minimum of 39 General Education Core Credits.
- **Graduation requirements:** Successfully complete all courses in program sequence with a minimum **CGPA of 2.0** and a **Professional Core GPA of 2.5**
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- **Program sequence revised: July 2025**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Associate Degree in Biology (ABIO)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement/ Math ATLIB		
BIOL1151	Cytology	PC	3	HS Biology	BIOL1151L	
BIOL1151L	Cytology Lab	PC	1	HS Biology or CHEM0016	BIOL1151	
CHEM1015	General Chemistry I	SC	3	HS CHEM or CHEM0016	CHEM1015L	
CHEM1015L	General Chemistry I Lab	SC	1		CHEM1015	
Total			**17**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
BIOL1302	Biodiversity	PC	3	BIOL1151	BIOL1302L	
BIOL1302L	Biodiversity Lab	PC	1	BIOL1151L	BIOL1302	
BIOL1332	Reproduction, Growth and Development	PC	3	BIOL1151	BIOL1332L	
BIOL1332L	Reproduction, Growth and Development Lab	PC	1	BIOL1151L	BIOL1332	
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry II Lab	SC	1	CHEM1015L	CHEM1025	
Total			**18**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
Total			**6**			
Year 2 – Semester 1 – August to December						
PHIL1014	Ethics	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
BIOL2151	Plant Physiology*	PC	3	BIOL1151	BIOL2401L	
BIOL2351	Genetics and Evolution	PC	3	BIOL1151	BIOL2401L	
BIOL2401L	Plant Physiology and Genetics & Evolution Lab*	PC	1		BIOL2151 & BIOL2351	
PHYS1015	General Physics I	SC	3		PHYS1312L	
PHYS1015L	General Physics I Lab	SC	1		PHYS1312	
MATH2011	Biostatistics I	SC	3			
Total			**16/20**			

Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
BIOL2352	Animal Physiology*	PC	3	BIOL1151	BIOL2552L	
BIOL2402	Ecology	PC	3	BIOL1302	BIOL2502L	
BIOL2552L	Animal Physiology and Ecology Lab*	PC	1		BIOL2352 & BIOL2402	
CHEM1032	Introduction to Organic and Biochemistry	SC	3	CHEM1015	CHEM1032L	
CHEM1032L	Introduction to Organic and Biochemistry Lab	SC	1	CHEM1015L	CHEM1032	
Total			**13/17**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**22**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**19**
TOTAL			**74**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- Students can choose between **BIOL2151 & BIOL2401L** or **BIOL2352 & BIOL2552L**
- Note: Students who plan on pursuing the Bachelor of Science in Biology are advised to take both sets of courses. Students who plan on pursuing the Bachelor of Science in Chemistry are advised to take MATH1302, PHYS1025 & PHYS1025L
- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Associate Degree in Biology and Chemistry (ABCB)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
CMPS1014	Introduction to Computers	GEC	3			
MATH1151	Algebra	GEC	3	Math Placement/ MATH1014		
MATH1201	Trigonometry	SC	3	Math Placement/ MATH1014		
CHEM1201	General Chemistry for Major (I)	PC	4	HS Chemistry/ CHEM0016	CHEM1201L	
CHEM1201L	General Chemistry for Majors (I) Lab	PC	1		CHEM1201	
BIOL1151	Cytology	PC	3		BIOL1151L	
BIOL1151L	Cytology Lab	PC	1		BIOL1151	
Total			**21**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CHEM1212	General Chemistry for Majors (II)	PC	4	CHEM1201	CHEM1212L	
CHEM1212L	General Chemistry for Majors (II) Lab	PC	1	CHEM1201L	CHEM1212	
CHEM1032	Organic and Biochemistry	PC	3	CHEM1201 or CHEM1015		
BIOL1302	Biodiversity	PC	3	BIOL1151	BIOL1302L	
BIOL1202L	Biodiversity Lab	PC	1	BIOL1151L	BIOL1302	
BIOL1332	Reproduction, Growth and Development	PC	3	BIOL1151	BIOL1332L	
BIOL1332L	Reproduction, Growth and Development Lab	PC	1	BIOL1151L	BIOL1332	
Total			**22**			
Year 1 – Semester 3 – June to July						
PHIL1014	Ethics	GEC	3			
ENGL1035	Composing Process	GEC	3	ENGL1025		
Total			**6**			
Year 2 – Semester 1 – August to December						
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
CHEM2161	Introduction to Inorganic Chemistry	PC	3	CHEM1201	CHEM2161L	
CHEM2161L	Introduction to Inorganic Chemistry Lab	PC	1	CHEM1201L	CHEM2161	

CHEM1252	Organic Chemistry (I)	PC	3	CHEM1032	CHEM1252L	
CHEM1252L	Organic Chemistry (I) Lab	PC	1	CHEM1032L	CHEM1252	
PHYS1015	General Physics I	SC	3		PHYS1015L	
PHYS1015L	General Physics I Lab	SC	1		PHYS1015	
BIOL2151	Plant Physiology*	PC	3	BIOL1151	BIOL2401L	
BIOL2351	Genetics & Evolution	PC	3	BIOL1151	BIOL2401L	
BIOL2401L	Plant Physiology, Genetics & Evolution Lab*	PC	1	BIOL1151L	BIOL2151, BIOL2351	
Total			**18/22**			
Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
CHEM2201	Organic Chemistry II	PC	3	CHEM1252	CHEM2201L	
CHEM2201L	Organic Chemistry II Lab	PC	1	CHEM1252L	CHEM2201	
BIOL2352	Animal Physiology*	PC	3	BIOL1151	BIOL2552L	
BIOL2402	Ecology	PC	3	BIOL1302	BIOL2552L	
BIOL2552L	Animal Physiology & Ecology Lab*	PC	1		BIOL2352, BIOL2402	
Total			**16/20**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**47**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**7**
TOTAL			**87**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- Students can choose between BIOL2151 & BIOL2401L or BIOL2352 & BIOL2552L
- Note: Students who plan on pursuing the Bachelor of Science in Biology are advised to take both sets of courses. Students who plan on pursuing the Bachelor of Science in Chemistry are advised to take MATH1302, PHYS1025 & PHYS1025L
- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES
Associate in Business Science (ABUS)
Full-time Program Sequence 2025

Course Code	Course Name	Type	Credits	Prerequisite	CR	Grade
Year 1 – Semester 1 – August to December						
ACTG1014	Principles of Accounting I	PC	3			
NRMP1014	Environmental Conservation & Development	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
MGMT1014	Fundamentals of Management	PC	3			
HIST1014	Introduction to Belizean History	GEC	3			
TOTAL			**18**			
Year 1 – Semester 2 – January to May						
ACTG1054	Principles of Accounting II	PC	3	ACTG1014		
ENGL1025	College English II	GEC	3	ENGL1014		
SPAN1025	Level 2 Lower Intermediate Spanish**	GEC	3	Spanish Placement Test / SPAN1015		
MATH2025	Business Statistics I	SC	3	MATH 1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
MGMT2015	Introduction to Entrepreneurship	PC	3	MGMT 1014		
TOTAL			**18**			
Year 2 – Semester 1 – August to December						
BCOM2014	Business Communication	SC	3	ENGL 1025		
CRTH1014	Critical Thinking	GEC	3			
ECON2015	Principles of Economics	PC	3	MATH1014		
FNAN2014	Principles of Finance	PC	3	ACTG1054		
MKTG2015	Principles of Marketing	PC	3	MGMT1014; ENGL1025		
RSCH2014	Research Methods	GEC	3	ENGL1025		
TOTAL			**18**			
Year 2 – Semester 2 – January to May						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
CMPS1024	Computer Business Application	SC	3	CMPS1014		
MGMT2055	Business Ethics	PC	3	MGMT1014; ENGL1025		
BLAW2014	Business Law	SC	3	ENGL1025		
PHIL1014	Ethics	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
TOTAL			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**21**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**12**
TOTAL			**72**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program

- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Associate Degree in Chemistry (ACHM)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
CHEM1201	General Chemistry for Majors (I)	PC	4	HS Chemistry	CHEM1201L	
CHEM1201L	General Chemistry for Majors (I) Lab	PC	1		CHEM1201	
BIOL1151	Cytology	SC	3		BIOL1151L	
BIOL1151L	Cytology Lab	SC	1		BIOL1151	
MATH1151	Algebra	GEC	3	Math Placement/ MATH1014		
MATH1201	Trigonometry	SC	3	Math Placement/ MATH1014		
Total			**18**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CHEM1212	General Chemistry for Majors (II)	PC	4	CHEM1201, MATH1151	CHEM1212L	
CHEM1212L	General Chemistry for Majors (II) Lab	PC	1	CHEM1201L	CHEM1212	
CHEM1032	Organic and Biochemistry	PC	3	CHEM1201 or CHEM1015		
MATH1302	Calculus (I)	SC	3	MATH1151, MATH1201		
Total			**17**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**6**			
Year 2 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
CHEM2161	Introduction to Inorganic Chemistry	PC	3	CHEM1201	CHEM2161L	
CHEM2161L	Introduction to Inorganic Chemistry Lab	PC	1	CHEM1201L	CHEM2161	
CHEM1252	Organic Chemistry (I)	PC	3	CHEM1032	CHEM1252L	

CHEM1252L	Organic Chemistry (I) Lab	PC	1		CHEM1252	
PHYS 1015	General Physics (I)	SC	3		PHYS1015L	
PHYS 1015L	General Physics (I) Lab	SC	1		PHYS1015	
Total			**18**			
Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
PHIL1014	Ethics	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
CHEM2201	Organic Chemistry (II)	PC	3	CHEM1252	*CHEM2201L	
CHEM2201L	Organic Chemistry (II) Lab	PC	1	CHEM1252L	CHEM2201	
PHYS1025	General Physics II	SC	3	PHYS1015	PHYS1025L	
PHYS1025L	General Physics II Lab	SC	1	PHYS1015L	PHYS1025	
Total			**17**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**25**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**18**
			76
PR	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
CR	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- ****Note:** ***(CHEM2201L prior to 2018-1 transfers as CHEM1252L)***
- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Associate Degree in Chemistry & Mathematics (ACMB)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
CHEM1201	General Chemistry for Majors (I)	PC	4	HS Chemistry	CHEM1201L	
CHEM1201L	General Chemistry for Majors (I) Lab	PC	1		CHEM1201	
SPAN1025	Lower Intermediate Spanish Level II	GEC	3	Placement Test		
MATH1151	Algebra	PC	3	MATH1014/ Math Placement		
MATH1201	Trigonometry	PC	3	Placement Test		
Total			**17**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CHEM1212	General Chemistry for Majors (II)	PC	4	CHEM1201 & MATH1151	CHEM1212L	
CHEM1212L	General Chemistry for Majors (II) Lab	PC	1	CHEM1201L	CHEM1212	
CHEM1032	Organic and Biochemistry	PC	3	CHEM1201 or CHEM1015		
MATH1302	Calculus (I)	PC	3	MATH1151 & MATH1201		
MATH1212	Mathematical Software	PC	3			
Total			**20**			
Year 1 – Semester 3 – June to July						
PHIL1014	Ethics	GEC	3			
ENGL1035	Composing Process	GEC	3	ENGL1025		
Total			**6**			
Year 2 – Semester 1 – August to December						
CHEM2161	Introduction to Inorganic Chemistry	PC	3	CHEM1201	CHEM2161L	
CHEM2161L	Introduction to Inorganic Chemistry Lab	PC	1	CHEM1201L	CHEM2161	
CHEM1252	Organic Chemistry (I)	PC	3	CHEM1032	CHEM1252L	
CHEM1252L	Organic Chemistry (I) Lab	PC	1		CHEM1252	
PHYS1015	General Physics (I)	SC	3		PHYS1015L	
PHYS1015L	General Physics (I) Lab	SC	1		PHYS1015	

MATH2201	Calculus II	PC	3	MATH1302		
MATH2151	Statistics I	PC	3	MATH1151		
CMPS1124	An Introduction to Programming Using Python	SC	3			
Total			**21**			
Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
CHEM2201	Organic Chemistry (II)	PC	3	CHEM1252	CHEM2201L	
CHEM2201L	Organic Chemistry (II) Lab	PC	1	CHEM1252L	CHEM2201	
MATH2352	Statistics II	PC	3	MATH2151		
MATH2302	Math Modeling	PC	3	MATH2201		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**19**			

**Note: *(CHEM2201L prior to 2018-1 transfers as CHEM1252L)*

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**27**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**49**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**7**
		TOTAL:	**83**
PR	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
CR	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

- **Program sequence revised: July 2025**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Engineering Department
Associate Degree in Civil Engineering Technology (ACET)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Prerequisite	CR	Grade
Year 1 – Semester 1 – August to December						
CIVT1401	Soils and Foundations	PC	3			
BCNT1401	Introduction to Building Construction & Drawing 1	SC	3			
MATH1151	Algebra	GEC	3	MATH1014/Math Placement/Math ATLIB		
PHYS1015	General Physics I	GEC	3			
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	SPAN1015/Spanish Placement		
ENGL1014	College English I	GEC	3	English ATLIB/English Placement		
CMPS1014	Introduction to Computer Studies	GEC	3			
TOTAL			**21**			
Year 1 – Semester 2 – January to May						
CIVT1202	Introduction to Surveying Measurements I	PC	3			
CIVT1502	Statics and Strength of Materials	PC	3	MATH1151, PHYS1015		
ACAD1102L	Computer Aided Drafting 1	SC	2			
MATH1201	Trigonometry	SC	3	MATH1151		
ENGL1025	College English II	GEC	3	ENGL1014		
SOCL1014/ PSYC1014	Introduction to Sociology **OR** Introduction to Psychology	GEC	3			
CRTH1014	Critical Thinking	GEC	3			
TOTAL			**20**			
Year 1 – Semester 3 – June to July						
CIVT2993	Internship (Practicum)	PC	3			
TOTAL			**3**			
Year 2 – Semester 1 – August to December						
CIVT2501	Hydraulics	PC	3			
CIVT2521L	Materials Properties-Testing Lab	PC	3			
CIVT2601	Structures in Construction 1	PC	3	CIVT1502		
CIVT2251	Surveying Measurements 2	PC	3	CIVT1202		
BCNT2301	Construction Estimating 1	SC	3			
ACAD2101L	Computer Aided Drafting 2	SC	2	ACAD1102L		
MATH1302	Calculus 1	SC	3	MATH1201		
TOTAL			**20**			

Year 2 – Semester 2 – January to May						
CIVT2652	Structures in Construction II	PC	3	CIVT2601		
CIVT2552	Highway Technology	PC	3	CIVT1401		
CIVT2562	Hydrology and GIS	PC	3	CIVT2501		
BCNT2352	Construction Estimating 2	SC	3	BCNT2301		
TOTAL			**12**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**24**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**33**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**19**
TOTAL			**76**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements:** Students who pursue a Bachelor Degree program will need to complete a minimum of 39 General Education Core Credits.
- **Graduation requirements:** Successfully complete all courses in program sequence with a minimum **CGPA of 2.0** and a **Professional Core GPA of 2.5**
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam**.**
- **Program sequence revised: July 2025**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES
Associate in Criminal Justice & Criminology (ACJC)
Full time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1- Semester 1 August to December						
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
CRIM1011	Legal Environment	PC	3			
MGMT1014	Fundamentals of Management	GEC	3			
CJCY1014	Introduction Criminal Justice	PC	3			
POLI1014	Introduction to Public Policy	SC	3			
HIST1014	Introduction to Belizean History	GEC	3			
Total			**18**			
Year 1 Semester 2 – January to May						
ENGL1025	College English II	GEC	3	ENGL 1014		
CRIM1024	Crime & Deviance	PC	3	CJCY 1014		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement Test/ SPAN1015		
CMPS1014	Introduction to Computers	GEC	3			
CJCY1024	Introduction Criminology & Criminological Theories	PC	3	CJCY 1014		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ ATLIB Math		
Total			**18**			
Year 2 Semester 1 – August to December						
CRTH1014	Critical Thinking	GEC	3			
BIOL1015	General Biology	SC	3			
CJCY2015	Corrections	PC	3			
CJCY2014	Juvenile Justice	PC	3			
CRIM1021	Criminal Law	PC	3			
ENLG1035	The Composing Process	GEC	3	ENGL 1025		
Total			**18**			
Year 2 Semester 2 – January to May						
RSCH2014	Research Methods	GEC	3	ENGL 1025		
CJCY2205	Victimology & Victimization	PC	3			
CRIM2062	Constitutional Law	PC	3			
CJCY2105	Policing	PC	3	POLI 1014		
PHIL1014	Ethics	GEC	3			
PSYC1014	Introduction to Psychology	GEC	3			
SOCL1014	Introduction to Sociology	SC	3			
Total			**21**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**30**
SC	Support core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**9**
Total			**75**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core:** courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION AND ARTS (FEA)
Education Department
Associate Degree in Early Childhood Education (AECE)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ECED1101	Early Childhood Development and Behavior Guidance	PC	3		ECED1051	
ECED1051	Foundations of Early Childhood Education	PC	3		ECED1101	
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
Total			**9**			
Year 1 – Semester 2 – January to May						
ENGL1025	College English II	GEC	3	ENGL1014		
ECED1152	Implementing the Integrated Early Childhood Curriculum	PC	3	ECED1051, ECED1101		
ECED1202	Assessment and Evaluation in Early Childhood Education	PC	3	ECED1051, ECED1101		
ECED2351	Practicum: General	PC	1	ECED1051, ECED1101	ECED1202	
Total			**10**			
Year 1 – Semester 3 – June to July						
ECED1253	Family, School and Community Relations	SC	3	ECED1051, ECED1101		
HSCI2102	Health, Nutrition & Safety	SC	3	ECED1051, ECED1101		
EMAT1101	College Math for Primary School Teachers I	GEC	3			
Total			**9**			
Year 2 – Semester 1 – August to December						
ECED2151	Science Inquiry and Early Math Concepts and Methods	PC	3	ECED1051,EMAT1101		
ECED2201	Language Development in the Early Years	PC	3	ECED1152, ECED1202		
CRTH1014	Critical Thinking	GEC	3			
ECED2352	Practicum: Preschool	PC	1	ECED1152, ECED1202		
Total			**10**			
Year 2 – Semester 2 – January to May						
ECED2302	Language Arts and Literature for Young Children	PC	3	ECED1152, ECED1202	ECED2312	
ECED2312	Emergent Literacy	SC	3	ECED1152, ECED1202	ECED2302	
ECED3602	Social Studies Methods for the Early Childhood Classroom	PC	3	ECED1152, ECED1202		
ECED3351	Practicum: Lower Primary	PC	1	ECED2352		
Total			**10**			

Year 2 – Semester 3 – June to July						
ECED3401	Instructional Resources for the Early Childhood Classroom	PC	3	ECED1152, ECED1202		
SPAN1025	Level 2 Lower Intermediate Spanish**	GEC	3	Spanish Placement Test / SPAN1015		
ECED3451	Creative Expression in the Early Childhood Classroom	PC	3	ECED1152, ECED1202		
Total			**9**			
Year 3 – Semester 1 – August to December						
ECED1151	Early Intervention for Children with Special Needs	PC	3	ECED1152, ECED1202		
ECED2251	Guidance of the Young Child	PC	3	ECED1152		
HIST1014	Introduction to Belizean History	GEC	3			
Total			**9**			
Year 3 – Semester 1 – August to December						
ECED2995	Field Experience for EC Teachers	PC	**9**	All Methods and Professional Courses		
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	18
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	48
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	9
Total			**75**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.

- Graduation Requirements:
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS
Languages, Literature and History Department
Associate Degree in English (AENG)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
	Natural Science Elective	GEC	3			
LITR1501	Introduction to Literature	PC	3			
CRTH1014	Critical Thinking	GEC	3			
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
Total			**18**			
Year 1 – Semester 2 – January to May						
ENGL1025	College English II	GEC	3	ENGL1014		
PHIL1014	Ethics	GEC	3			
LITR2152	Survey of World Literature	PC	3	ENGL1014		
HIST1014	Introduction to Belizean History	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**18**			
Year 2 – Semester 1 – August to December						
SPAN1025	Level 2 Lower Intermediate Spanish*	GEC	3	Spanish Placement Test/ SPAN1015		
ENGL1035	The Composing Process	PC	3	ENGL1025		
LITR2451	Introduction to Literary Approaches	PC	3	ENGL1025; LITR1501		
LITR2501	Belizean Literature 1	PC	3	ENGL1025		
LITR2551	Creative Writing: Poetry	PC	3	ENGL1025		
ENGL2105	Communication Skills	SC	3	ENGL1025		
Total			**18**			
Year 2 – Semester 2 – January to May						
LING1152	Fundamentals of Linguistics	SC	3	ENGL1025		
LITR2257	Caribbean Literature 1	PC	3	LITR2451		
LITR2156	British Literature	PC	3	LITR2451		
LITR2206	African Literature 1	PC	3	LITR2451		
LITR2357	Latin American Literature 1	PC	3	LITR2451		
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**30**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**6**
Total			**72**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Mathematics, Physics, and Information Technology Department
Associate Degree in Information Technology (AINT)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
CMPS1134	Fundamentals of Computing	GEC	3			
CMPS1131	Principles of Programming I	PC	3			
MATH1151	Algebra	GEC	3	ATLIB/Math Placement		
MATH1201	Trigonometry	SC	3	HS General Math		
ENGL1014	College English I	GEC	3	ATLIB/English Placement		
MGMT1014/ ECON1014	Fundamentals of Management **OR** Introduction to Economics	GEC	3			
	Total Credits		**18**			
Year 1 – Semester 2 – January to May						
CMPS1232	Principles of Programming II	PC	3	CMPS1131		
CMPS1211	Hardware Fundamentals	PC	3	CMPS1134		
CMPS1171	Introduction to Databases	PC	3	CMPS1131		
MATH1302	Calculus I	SC	3	MATH1151; MATH1201		
ENGL1025	College English II	GEC	3	ENGL1014		
CRTH1014	Critical Thinking	GEC	3			
	Total Credits		**18**			
Year 2 – Semester 1 – August to December						
CMPS2131	Data Structures	PC	3	CMPS1232		
CMPS2111	Systems Analysis	PC	3	CMPS1171		
CMPS2151	Web Development	PC	3	CMPS1232		
MATH2201	Calculus II	SC	3	MATH1302		
CMPS1191	Networking Fundamentals	PC	3	CMPS1211		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1015		
	Total Credits		**18**			
Year 2 – Semester 2 – January to May						
CMPS2212	GUI Programming	PC	3	CMPS2131; CMPS2111		
CMPS2232	Object Oriented Systems Development	PC	3	CMPS2131, CMPS2111		
CMPS2242	Systems Programming & Computer Organization	PC	3	CMPS2131		
CMPS2992	Project	PC	3	***See Below**		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
HIST1014	Belizean History	GEC	3			
	Total Credits		**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**27**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**36**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**9**
TOTAL			**72**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional notes for this program:

*(1) CMPS 2992 -Project Pre-requisites: Successful completion of ALL Professional Core and Support Core courses up to Year 2 Semester 1; Professional Core courses pending in year 2 MUST be taken along with CMPS2992-Project.

- CMPS1124 and MATH1151 are used to meet Math and computer GEC requirements.
- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Mathematics, Physics, and Information Technology Department
Associate Degree in Mathematics (AMAT)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 Semester 1 – August to December						
MATH 1151	Algebra	GEC	3	Math Placement/ MATH1014		
MATH 1201	Trigonometry	PC	3	Math Placement/ MATH1014		
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
CMPS1124	An Introduction to Programming Using Python	GEC	3			
MGMT1014/ ECON1014	Fundamentals of Management **OR** Introduction to Economics	GEC	3			
SOCL1014/ PSYC1014	Introduction to Sociology **OR** Introduction to Psychology	GEC	3			
Total			**18**			
Year 1 Semester 2 – January to May						
MATH1252	Complex Numbers & Vectors	PC	3	MATH1151		
MATH1302	Calculus I	PC	3	MATH1151, MATH1201		
MATH1212	Mathematical Software	PC	3			
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CMPS2122	Programming II	SC	3	CMPS1124		
Total			**18**			
Year 2 Semester 1 – August to December						
MATH2201	Calculus II	PC	3	MATH 302		
MATH2251	Introduction To Discrete Math	PC	3	MATH1302		
MATH2151	Statistics I	PC	3	MATH1151		
ENGL1035	Composing Process	GEC	3	ENGL1025		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
PHIL1014	Ethics	GEC	3			
Total			**18**			
Year 2 Semester 2 – January to May						
MATH2352	Statistics II	PC	3	MATH2151		
MATH2302	Math Modeling	PC	3	MATH2201		
MATH2402	Mechanics	PC	3	MATH1252, MATH2201		

STAT2151	Introduction to Statistical Software	PC	3	MATH2151		
RSCH2014	Research Methods	GEC	3			
HIS1014	Belizean History	GEC	3			
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**33**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**3**
TOTAL			**72**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for the Program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation requirement:** Successfully complete all courses in program sequence with a minimum GPA of 2.0 and a Professional Core GPA of 2.5
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- CMPS1124 and MATH1151 are used to meet Math and Computer GC requirements

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Mathematics, Physics, and Information Technology Department
Associate Degree in Mathematics & Physics (AM&P)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
PHYS1201	Mechanics for Physics	PC	4	HS Physics & Math	PHYS1251L	
PHYS1251L	Physics Lab I	PC	1	HS Physics & Math	PHYS1201	
MATH1151	Algebra	GEC	3	Math Placement/ Math ATLIB		
MATH1201	Trigonometry	PC	3	HS General Math		
CMPS1124	An introduction to Programming using Python	GEC	3			
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**23**			
Year 1 – Semester 2 – January to May						
PHYS1312	Oscillation & Waves	PC	4	PHYS1201	PHYS1402L	
PHYS1402L	Physics Lab II	PC	1	PHYS1251L	PHYS1312	
MATH1252	Complex numbers & Vectors	PC	3	MATH1151		
MATH1302	Calculus I	PC	3	MATH1151,MATH1201		
MATH 1212	Mathematical Software	PC	3			
PHYS1162	Fluids & Heat	PC	3	HS Physics & Math		
CMPS2122	Programming II	SC	3	CMPS1124		
ENGL1025	College English II	GEC	3	ENGL1014		
Total			**23**			
Year 2 – Semester 1 – August to December						
PHYS2161	Electricity & Magnetism	PC	4	PHYS1312	PHYS2251L	
PHYS2251L	Physics Lab III	PC	1	PHYS1402L	PHYS2161	
MATH2151	Statistics I	PC	3	MATH1151		
MATH2201	Calculus II	PC	3	MATH1302		
MATH2251	Introduction to Discrete Math	PC	3	MATH1302		
PHYS2271	Light & Optics	PC	3	PHYS1312		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		

PHIL1014	Ethics	GEC	3			
Total			**23**			
Year 2 – Semester 2 – January to May						
PHYS2302	Modern Physics	PC	3	PHYS2161	PHYS2402L	
PHYS2352	Electronics	PC	3	PHYS2161	PHYS2402L	
PHYS2402L	Physics Lab IV	PC	1	PHYS2251L	PHYS2302, PHYS2352	
**MATH2302 or MATH2402	Math Modeling or Mechanics	PC	3	MATH2201 or MATH1252 & MATH2201	PHYS2402L	
MATH2352	Statistics II	PC	3	MATH2151	PHYS2402L	
CRTH1014	Critical Thinking	GEC	3			
HIST1014	Introduction to Belizean History	GEC	3			
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**22**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**55**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**3**
TOTAL			**91**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- CMPS1124 and MATH1151 are used to meet Math and Computer GC requirements
- ** **Students interested in sitting the CAPE exam need to do both math courses.**
- *** **Natural Science Options include**: BIOL1015, BIOL1025, CHEM1015, PHYS1015, NRMP1014, ENVR1014, MRST1014 or any other relevant natural science course equivalent to 3 credits.
- **Program sequence revised: July 2025**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Engineering Department
Associate Degree in Mechanical & Electrical Engineering (AMEE)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
ELEC1401	Electrical Engineering Science 1	PC	3			
ELEC1101L	Electrical Workshop (Practice) 1	PC	1			
MECH1101L	Mechanical Workshop (Practice) 1	PC	1			
MECH1301	Engineering Drawing & Design 1	PC	3			
MECH1401	Material Science Workshop Technology	PC	3			
MECH1451	Mechanical Engineering Science 1	PC	3			
ENGL1014	College English I	GEC	3	ATLIB/English Placement		
CHEM1042	Chemistry for Engineers	SC	2			
PHYS1041	Physics for Engineers	SC	2			
Total			**21**			
Year 1 – Semester 2 – January to May						
ACAD1102L	Computer Aided Drafting 1	SC	2			
ELEC1152 L	Electrical Workshop (Practice) 2	PC	1	ELEC1101L		
ELEC1452	Electrical Engineering Science 2	PC	3	ELEC1401		
MECH1152L	Mechanical Workshop (Practice) 2	PC	1	MECH1101L		
MECH1352	Engineering Drawing & Design 2	PC	3	MECH1301		
MECH1502	Mechanical Engineering Science 2	PC	3	MECH1451		
ENGL1024	College English II	GEC	3	ENGL1014		
MATH1151	Algebra	GEC	3	MATH1014/Math Placement		
CRTH1014	Critical Thinking	GEC	3			
Total			**22**			
Year 1 – Semester 3 – June to July						
MECH2993	Internship (Practicum)	PC	3			
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**9**			
Year 2 – Semester 1 – August to December						
ACAD2101L	Computer Aided Drafting 2	SC	2	ACAD1102L		
ELEC2101L	Electrical Workshop (Practice) 3	PC	1	ELEC1152L		
ELEC2201	Electronics & Systems 1	PC	2			
ELEC2301	Measurement & Instrumentation 1	PC	2			
ELEC2401	Electrical Engineering Science 3	PC	3	ELEC1452		

MECH2101L	Mechanical Workshop (Practice) 3	PC	1	MECH1152L		
MECH2201	Power Production 1	PC	2			
MECH2301	Engineering Drawing & Design 3	PC	3	MECH1352		
MECH2451	Mechanical Engineering Science 3	PC	3	MECH1502		
MATH1201	Trigonometry	SC	3	MATH1151		
Total			**22**			
Year 2 – Semester 2 – January to May						
ELEC2152L	Electrical Workshop (Practice) 4	PC	1	ELEC2101L		
ELEC2252	Electronics & systems 2	PC	2	ELEC2201		
ELEC2352	Measurement & Instrumentation 2	PC	2	ELEC2301		
ELEC2452	Electrical Engineering Science 4	PC	3	ELEC2401, MATH1201		
MECH2252	Power Production 2	PC	2	MECH2201		
MECH2352	Engineering Drawing & Design 4	PC	3	MECH2301		
MECH2502	Mechanical Engineering Science 4	PC	3	MECH2451, MATH1201		
MECH2152L	Mechanical Workshop (Practice) 4	PC	1	MECH2101L		
MATH1302	Calculus 1	SC	3	MATH1151, MATH 1201		
Total			**20**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**18**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**62**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**14**
Total			**94**
PR	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements:** Students who pursue a Bachelor Degree program will need to complete a minimum of 39 General Education Core Credits.
- **Graduation requirements:** Successfully complete all courses in program sequence with a minimum **CGPA of 2.0** and a **Professional Core GPA of 2.5**
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- **Program sequence revised: July 2025**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Associate Degree in Natural Resources Management (ANRM)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement /English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement /Math ATLIB		
BIOL1015	General Biology I	SC	3			
BIOL1015L	General Biology I Lab	SC	1			
CHEM1015	General Chemistry I	SC	3			
CHEM1015L	General Chemistry I Lab	SC	1			
NRMP1151	Fundamentals for Environmental Managers	PC	3			
Total			**17**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
BIOL 1025	General Biology II	SC	3	BIOL1015	BIOL1025L	
BIOL 1025L	General Biology Lab II	SC	1		BIOL1025	
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry Lab II	SC	1		CHEM1025	
Total			**17**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
Total			**6**			
Year 2 – Semester 1 – August to December						
CMPS1014	Introduction to Computers	GEC	3			
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement Test / SPAN1015		
NRMP 2201	Introduction to Marine Ecology	PC	3	NRMP 1151		
NRMP 2251	Introduction to Recreation	PC	3	NRMP 1151		
NRMP 2301	Introduction to Geology	PC	3	NRMP1151/ ENVR1162		
NRMP 2351	Waste Management	PC	3	NRMP 1151		
Total			**18**			

Year 2 – Semester 2 – January to May						
PHIL1014	Ethics	GEC	3			
HIST1014	Belizean History	GEC	3			
NRMP 2402	Protected Areas Management	PC	3	NRMP 2251	NRMP2452	
NRMP 2452	Terrestrial Management Issues	PC	3	NRMP 1151, BIOL1025	NRMP2402	
NRMP 2502	Environmental Assessment	PC	3	NRMP 2201		
NRMP 2552	Hospitality and Tourism	PC	3	NRMP 2251		
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**27**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**16**
Total			**76**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **CMPS1014** Introduction to Computers can be challenged
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Associates Degree in Pre-Medical Science (APMD)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
HIST1014	Belizean History	GEC	3			
MATH1151	Algebra	GEC	3	Math Placement Test/ MATH1014		
MATH1201	Trigonometry	SC	3	Math Placement Test/ MATH1014		
CHEM1201	General Chemistry for Major I	PC	4	HS Chemistry	CHEM1201L	
CHEM1201L	General Chemistry for Majors I Lab	PC	1		CHEM1201	
BIOL1151	Cytology	PC	3		BIOL1151L	
BIOL1151L	Cytology Lab	PC	1		BIOL1151	
Total			**21**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CHEM1212	General Chemistry for Majors II	PC	4	CHEM1201	CHEM1212L	
CHEM1212L	General Chemistry for Majors II Lab	PC	1	CHEM1201L	CHEM1212	
CHEM1032	Organic and Biochemistry	PC	3	CHEM1201 or CHEM1015		
MATH1302	Calculus I	PC	3	MATH1151 MATH1201		
BIOL1332	Reproduction, Growth and Development	PC	3	BIOL1151	BIOL1332L	
BIOL1332L	Reproduction, Growth and Development Lab	PC	1	BIOL1151	BIOL1332	
Total			**21**			
Year 1 – Semester 3 – June to July						
PHIL1014	Ethics	GEC	3			
PHYS1015	General Physics I	SC	3		PHYS1015L	
PHYS1015L	General Physics I Lab	SC	1		PHYS1015	
SPAN1025	Intermediate Spanish Level II	GEC	3	Placement Test/SPAN1015		
Total			**10**			

Year 2 – Semester 1 – August to December						
CHEM2161	Introduction to Inorganic Chemistry	PC	3	CHEM1201	CHEM2161L	
CHEM2161L	Introduction to Inorganic Chemistry Lab	PC	1	CHEM1201L	CHEM2161	
CHEM1252	Organic Chemistry I	PC	3	CHEM1032	CHEM1252L	
CHEM1252L	Organic Chemistry I Lab	PC	1		CHEM1252	
MATH2201	Calculus II	PC	3	MATH1302		
MATH2151	Statistics I	PC	3	MATH1151		
BIOL2151	Plant Physiology	PC	3	BIOL1151	BIOL2401L	
BIOL2351	Genetics & Evolution	PC	3	BIOL1151	BIOL2401L	
BIOL2401L	Plant Physiology, Genetics & Evolution Lab	PC	1	BIOL1151L	BIOL2151 & BIOL2351	
Total			**21**			
Year 2 – Semester 2 – January to May						
CHEM2201	Organic Chemistry II	PC	3	CHEM1252	CHEM2201L	
CHEM2201L	Organic Chemistry II Lab	PC	1		CHEM2201	
BIOL2352	Animal Physiology	PC	3	BIOL1151	BIOL2552L	
BIOL2552L	Animal Physiology & Ecology Lab	PC	1		BIOL2352 & BIOL2402	
MATH2352	Statistics II	PC	3	MATH2151		
MATH2302	Math Modeling	SC	3	MATH2201		
PHYS1025	General Physics II	SC	3	PHYS1015		
PHYS1025L	General Physics Lab II	SC	3	PHYS1015L		
CMPS1124	An Introduction to Programming Using Python	GEC	3			
Total			**23**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**24**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**56**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**16**
TOTAL			**96**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0. and a professional core GPA of 2.5. *To be eligible to apply for the **Bachelor of Medicine and Bachelor of Surgery (MBBS)** program, students must have a minimum **GPA of 3.0** in the Professional Core courses.*
- **CMPS1014** Introduction to Computers can be challenged
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS
Education Department
Associate in Primary Education (APRE)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
EDUC1051	Introduction to Education	PC	3			
EMAT1101	College Math for Primary Teachers I	PC	3			
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
PSYC1014	Introduction to Psychology	GEC	3			
CRTH1014	Critical Thinking	GEC	3			
Total			**18**			
Year 1 – Semester 2 – January to May						
EMAT1152	College Math for Primary Teachers II	PC	3	EMAT1101		
LING1152	Fundamentals of Linguistics	SC	3	ENGL1014		
EDUC1402	Teaching Methods for Primary Curriculum	PC	4			
EDUC1252	Nature of the Learner	PC	4	PSYC1014		
ENGL1025	College English II	GEC	3	ENGL1014		
MGMT1014	Fundamentals of Management	GEC	3			
Total			**20**			
Year 1 – Semester 3 – June to July						
EART2153/ EMUS2153	Art Education **OR** Music Education	PC	3	EDUC1402		
EPHY2153	Physical Education for the Primary Grades	PC	3	EDUC1402	ESCI2102	
ESCI2102	Health & Family Life Education	SC	3	EDUC1402, EDUC1252	EPHY2153	
PHIL1014	Ethics	GEC	3			
Total			**12**			
Year 2 – Semester 1 – August to December						
EMAT2151	Math Concepts & Methods for the Primary Grades 1	PC	4	EMAT1101, 1152, EDUC1402		
EDUC2151	Managing the Regular & Multi-grade Classroom	PC	3	EDUC1402		
EENG2151	Language Methods for Primary School Teachers 1	PC	3	LING1152, EDUC1402		
HIST1014	Introduction to Belizean History	GEC	3			
EDUC2501	Teaching Practicum 1	PC	1	EDUC1402, 1051, 1252	EDUC2151	

SPAN2015	Level 3 Intermediate Spanish [1]	GEC	3	Spanish Placement Test / SPAN1015, SPAN1025		
ESCI1151	Science for Primary School Teachers	PC	3			
Total			**20**			
Year 2 – Semester 2 – January to May						
ESPN2151	Spanish Methods for the Primary Grades	PC	3	SPAN2015, EDUC1402		
EENG2202	Language Methods for Primary School Teachers 2	PC	3	EENG2151, LING1152, EDUC1402	EENG2151	
ESCI2152	Science Concepts & Methods for Primary School Teachers	PC	3	ESCI1151, EDUC1402		
ESOC2152	Social Concepts & Methods for Primary School Teachers	PC	3	EDUC1402		
RSCH2014	Research Methods	GEC	3	ENGL1025		
EDUC2552	Teaching Practicum 2	PC	2	EDUC2501, EDUC1402		
Total			**17**			
Year 3 – Semester 1 – August to December						
EDUC2995	Internship for Primary School Teachers	PC	9	All Courses		
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	30
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	60
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	6
Total			**96**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which pro**vides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES

Associate in Tourism Studies (ATOS)

Full -time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 Semester 1 – August to December						
ACTG1014	Principles of Accounting I	SC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ATLIB English		
TOUR1014	Introduction to Tourism	PC	3			
MGMT1014	Fundamentals of Management	PC	3			
HIST1014	Introduction Belizean History	GEC	3			
ECON1014	Introduction to Economics	GEC	3			
TOTAL			**18**			
Year 1 Semester 2 – January to May						
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement Test/SPAN1015		
TOUR1052	Tourism Geography	PC	3	TOUR 1014		
ENGL1025	College English II	GEC	3	ENGL1014		
NRMP1014	Environmental Conservation & Development	GEC	3			
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
CMPS1014	Introduction to Computer Studies	GEC	3			
Total			**18**			
Year 2 Semester 1 – August to December						
TOUR2011	Introduction Accommodation Management	PC	3	TOUR1014		
TOUR2051	Sustainable Tourism	PC	3	TOUR1014		
TOUR2101	Tourism Product Development	PC	3	TOUR1014		
MKTG2015	Principles of Marketing	SC	3	MGMT1014; ENGL1025		
MGMT2011	Introduction to Small Business Management	SC	3	MGMT1014		
CRTH1014	Critical Thinking	GEC	3			
Total			**18**			
Year 2 Semester 2 – January to May						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
TOUR2152	Introduction to Food & Beverage Management	PC	3	TOUR 1014		
TOUR2202	Tourism Marketing	PC	3	TOUR1014; MKTG1014		
RSCH2014	Research Methods	GEC	3	ENGL1025		
TOUR2252	Tourism Planning & Policy	PC	3	TOUR 1014		
MKTG2052	Customer Service	SC	3	MKTG 2015		
TOUR2995	Internship	PC	3	Final Semester		
Total			**21**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**27**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**15**
Total			**75**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core:** courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES
Bachelor of Science in Accounting (BACC)
Full- time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ACTG1014	Principles of Financial Accounting I	PC	3			
NRMP1014	Environmental Conservation & Development	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
MGMT1014	Fundamentals of Management	PC	3			
HIST1014	Introduction to Belizean History	GEC	3			
Total			**18**			
Year 1 – Semester 2 – January to May						
ACTG1054	Principles of Financial Accounting II	PC	3	ACTG1014		
ENGL1025	College English II	GEC	3	ENGL1014		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1025		
MATH2025	Business Statistics I	SC	3	MATH 1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
MGMT2015	Introduction to Entrepreneurship	PC	3	MGMT 1014		
Total			**18**			
Year 2 – Semester 1 – August to December						
BCOM2014	Business Communication	SC	3	ENGL 1025		
CRTH1014	Critical Thinking	GEC	3			
ECON2015	Principles of Economics	PC	3	MATH1014		
FNAN2014	Principles of Finance	PC	3	ACTG1054		
MKTG2015	Principles of Marketing	PC	3	MGMT1014; ENGL1025		
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**18**			
Year 2 – Semester 2 – January to May						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
CMPS1024	Computer Business Application	SC	3	CMPS1014		
MGMT2055	Business Ethics	PC	3	MGMT1014; ENGL1025		
BLAW2014	Business Law	SC	3	ENGL1025		
ACTG2014	Accounting Software Application	PC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**18**			

Year 3 – Semester 1- August to December						
ACTG3051	Intermediate Accounting I	PC	3	ACTG1054		
ACTG3151	Cost Accounting I	PC	3	ACTG1054		
MGMT3015	Organizational Behavior	PC	3	MGMT1014		
TAXA3011	Taxation I	PC	3	ACTG1054		
MATH3051	Quantitative Methods	SC	3	ECON2015; MATH2025		
ENGL3155	Technical Writing	SC	3	ENGL1035		
Total			**18**			
Year 3 - Semester 2– January to May						
ACTG3102	Intermediate Accounting II	PC	3	ACTG3051		
ACTG3202	Cost Accounting II	PC	3	ACTG3151		
CMPS3012	Management Information Systems	SC	3	CMPS1024; MGMT1014		
FNAN3015	Financial Management	PC	3	FNAN2014		
MATH3042	Business Calculus	PC	3	MATH1014		
TAXA3052	Taxation II	PC	3	TAXA3011		
Total			**18**			
Year 4 – Semester 1- August to December						
ACTG4011	Advance Financial Accounting I	PC	3	ACTG 3151; ACTG 3202	ACTG4101	
ACTG4101	Not for Profit/Government Accounting	PC	3	ACTG3151; ACTG3202	ACTG4011	
ACTG4151	Auditing and Investigation I	PC	3	ACTG3151; ACTG 3202		
MGMT4015	Small Business Management	SC	3	MKTG2015; MGMT 3015; FNAN3015		
RSCH4015	Research Methods in Social Sciences	SC	3	RSCH2014; MATH3025		
ECON4015	Managerial Economics	PC	3	ECON2015; MATH3042		
Total			**18**			
Year 4 – Semester 2- August to December						
ACTG4052	Advance Financial Accounting II	PC	3	ACTG4011; ACTG 4101; ACTG3102		
ACTG4202	Auditing and Investigation II	PC	3	ACTG4011, ACTG 4101, ACTG4151		
BUSS4015	Public Finance	SC	3	ECON2015; FNAN3015		
MGMT4995/ MGMT4205	Internship **OR** Undergraduate Thesis	PC	9	Final Semester with only 4 courses remaining		
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**81**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**30**
Total			**144**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core:** courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY (FST)
Agriculture Department
Bachelor of Science in Agriculture (BAGR)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
AAGR1111	Biology of Farm Crops & Livestock	SC	3			
AAGR1131	Principles of Crop Production	PC	3			
AAGR1121	Principles of Livestock Production	PC	3			
CHEM1015	General Chemistry	SC	3			
CHEM1015L	General Chemistry Lab	SC	1			
ENGL1014	College English I	GEC	3	English Placement/ English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement/ Math ATLIB		
Total			**19**			
Year 1 – Semester 2 – January to May						
AAGR1232	Introduction to Soils	PC	3	CHEM1015 CHEM1015L		
AAGR1172	Livestock Nutrition	PC	3	AAGR1121		
AAGR2211	Crop Production I	PC	3	AAGR1131		
AAGR1141	Agriculture Field Practice	PC	6			
CGIS1014	Introduction to Computing and Geographic Information Systems (GIS) for Agriculture and Forestry	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
Total			**21**			
Year 1 – Semester 3 – June to July						
CRTH1014	Critical Thinking	GEC	3			
PHIL1014	Ethics	GEC	3			
Total			**6**			
Year 2 – Semester 1 – August to December						
AAGR2231	Applied Agro-Forestry	PC	3	AAGR1232		
AAGR2252	Crop Production II	PC	3	AAGR2211		

AAGR2261	Value Added Products	PC	3			
AAGR2134	Senior Project I	PC	3	ENGL1025		
AAGR2271	Livestock Production I	PC	3	AAGR1121		
ENGL1035	Composing Process	GEC	3	ENGL1025		
ECON1014	Introduction to Economics	GEC	3			
Total			**21**			
Year 2 – Semester 2 – January to May						
AAGR1152	Agriculture Field & Workplace Practice	PC	6	AAGR1141		
AAGR2262	Introduction to Agribusiness	PC	3	AAGR2261, ENGL 1025, ECON1014		
AAGR2292	Livestock Production II	PC	3	AAGR2271		
AAGR2342	Senior Project II	PC	3	AAGR2134 ENGL1025		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1015		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**21**			
Year 3 – Semester 1 – August to December						
BAGR3311	Crop Nutrition and Fertilizer Use	PC	3			
BAGR3321	Watershed Management 1: Principles	PC	3			
BAGR3331	Animal Health and Food Safety	PC	3			
BAGR3351	Project Management	PC	3			
SPAN2015	Level 3 Intermediate Spanish	GEC	3	SPAN1025/ Spanish Placement		
Total			**15**			
Year 3 – Semester 2 – January to May						
BAGR3382	Biometrics: Agriculture Experimentation	PC	3			
BAGR3392	Watershed Management II: Application	PC	3	BAGR3321		
BAGR3372	Plant Health and Pest Management	PC	3			
BAGR3362	History of Agriculture Enterprise Development in Belize	PC	3			
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**15**			
Year 4 – Semester 1 – August to December						
BAGR4411	Advance Agriculture Marketing	PC	3			
BAGR4421	Senior Project III	PC	6	RSCH2014		
BAGR4431	Climate Change: Principles and Resilient Pathways	PC	3			
			12			

Year 4 – Semester 2 – January to May						
BAGR4452	Climate Smart Agriculture (CSA): Adaptations	PC	3			
BAGR4462	Food Production and Food Security	PC	3			
BAGR4482	Financial Analysis Projects	PC	3			
BAGR4472	Extension Supporting CSA	PC	3			
HIST1014	Belizean History	GEC	3			
Total			**15**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**99**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**7**
TOTAL			**145**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- Students accepted in the AAGR program in 2020 or earlier may complete their current program or switch to the new one.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- Students must adhere to any additional instructions shared in the student handbook or course outlines while enrolled in the program.
- Students must meet with their advisors at the start of every semester to ensure the program sequence is being followed accordingly.

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Bachelor of Science in Biology (BBIO)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement/ Math ATLIB		
BIOL1151	Cytology	PC	3	HS Biology	BIOL1151L	
BIOL1151L	Cytology Lab	PC	1	HS Biology or CHEM0016	BIOL1151	
CHEM1015	General Chemistry I	SC	3	HS CHEM or CHEM0016	CHEM1015L	
CHEM1015L	General Chemistry I Lab	SC	1		CHEM1015	
Total			**17**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
BIOL1302	Biodiversity	PC	3	BIOL1151	BIOL1302L	
BIOL1302L	Biodiversity Lab	PC	1	BIOL1151L	BIOL1302	
BIOL1332	Reproduction, Growth and Development	PC	3	BIOL1151	BIOL1332L	
BIOL1332L	Reproduction, Growth and Development Lab	PC	1	BIOL1151L	BIOL1332	
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry II Lab	SC	1	CHEM1015L	CHEM1025	
Total			**18**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
Total			**6**			
Year 2 – Semester 1 – August to December						
PHIL1014	Ethics	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
BIOL2151	Plant Physiology*	PC	3	BIOL1151	BIOL2401L	
BIOL2351	Genetics and Evolution	PC	3	BIOL1151	BIOL2401L	
BIOL2401L	Plant Physiology and Genetics & Evolution Lab*	PC	1		BIOL2151, BIOL2351	
PHYS1015	General Physics I	SC	3		PHYS1312L	

PHYS1015L	General Physics I Lab	SC	1		PHYS1312	
MATH2011	Biostatistics I	SC	3			
Total			**16/20**			
Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
BIOL2352	Animal Physiology*	PC	3	BIOL1151	BIOL2552L	
BIOL2402	Ecology	PC	3	BIOL1302	BIOL2502L	
BIOL2552L	Animal Physiology and Ecology Lab*	PC	1		BIOL2352, BIOL2402	
CHEM1032	Introduction to Organic and Biochemistry	SC	3	CHEM1015	CHEM1032L	
CHEM1032L	Introduction to Organic and Biochemistry Lab	SC	1	CHEM1015L	CHEM1032	
Total			**13/17**			
Year 3 – Semester 1 – August to December						
BIOL3151	Natural History of Invertebrates	PC	3	BIOL1151, BIOL2402	BIOL3151L	
BIOL3151L	Natural History of Invertebrates Lab	PC	1	BIOL1151L	BIOL3151	
BIOL3402	General Microbiology	PC	3	BIOL1151	BIOL3402L	
BIOL3402L	General Microbiology Lab	PC	1	BIOL1151L	BIOL3402	
BIOL3302	Lower Plants	PC	3	BIOL1151	BIOL3302L	
BIOL3302L	Lower Plants Lab	PC	1	BIOL1151L	BIOL3302	
MATH3012	Biostatistics II	SC	3	MATH2011		
NRMP3401	Introduction to GIS*	EL	4			
Total			**19**			
Year 3 – Semester 2 – January to May						
BIOL4151	Higher Plants	PC	3	BIOL3302	BIOL4151L	
BIOL4151L	Higher Plants Lab	PC	1	BIOL3302L	BIOL4151	
BIOL3352	Natural History of Vertebrates	PC	3	BIOL1151, BIOL2402	BIOL3352L	
BIOL3352L	Natural History of Vertebrates Lab	PC	1	BIOL1151	BIOL3352	
BIOL3362	Biochemistry and Molecular Biology	PC	3	CHEM1032, BIOL2351	BIOL3362L	
BIOL3362L	Biochemistry and Molecular Biology Lab	PC	1	CHEM1032L, BIOL2401L	BIOL3362	
NRMP4301	Environmental Microbiology	PC	3	BIOL3402		
BIOL3552	Biology Seminar I	PC	1			
Total			**16**			
Year 4 – Semester 1 – August to December						
BIOL4451	Entomology**	PC	3	BIOL3151	BIOL4451L	
BIOL4451L	Entomology Lab**	PC	1	BIOL3151L	BIOL4451	
BIOL4601	Animal Behavior**	PC	3	BIOL2402		
BIOL4501	Plant Biotechnology	PC	3	BIOL3402	BIOL4501L	
BIOL4501L	Plant Biotechnology Lab	PC	1	BIOL3402L	BIOL4501	
BIOL4352	Ecology & Evolution	PC	3	BIOL1151, BIOL 2402 MATH3012	BIOL4352L	

BIOL4352L	Ecology & Evolution Lab	PC	1		BIOL4352, BIOL4501	
SCIE4551	Scientific Proposal Writing	SC	3			
SPAN2015	Level 3 Intermediate Spanish	GEC	3	SPAN1025		
Total			**18**			
Year 4 – Semester 2 – January to May						
BIOL4602	Introduction to Plant Pathology and Crop Protection***	PC	3	BIOL3402	BIOL4602L	
BIOL4602L	Introduction to Plant Pathology and Crop Protection Lab ***	PC	1	BIOL3402L	BIOL4602	
BIOL4402	Fish Biology and Fisheries***	PC	3		BIOL4402L	
BIOL4402L	Fish Biology and Fisheries Lab***	PC	1		BIOL4402	
BIOL4992	Thesis Research	PC	6	MATH3012, SCIE 4551, BIOL3452		
Total			**10**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**72**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**25**
EL	Elective	Courses outside a core curriculum that help broaden a student's knowledge, skills, and perspectives.	**4**
TOTAL			**137**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- Students will choose **BIOL4451 or BIOL4601**
- Students can choose between **BIOL2151 & BIOL2401L** or **BIOL2352 & BIOL2552L**
- Note: Students who plan on pursuing the Bachelor of Science in Biology are advised to take both sets of courses. Students who plan on pursuing the Bachelor of Science in Chemistry are advised to take MATH1302, PHYS1025 & PHYS1025L
- **General Education Core** courses are offered every semester, including Summer.
- ***NRMP3401 Introduction to GIS is a recommended elective**
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS(FEA)
Education Department
Bachelor Degree in Biology Education (BBIE)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement/ Math ATLIB		
BIOL1151	Cytology	PC	3	HS Biology	BIOL1151L	
BIOL1151L	Cytology Lab	PC	1	HS Biology or CHEM0016	BIOL1151	
CHEM1015	General Chemistry I	SC	3	HS CHEM or CHEM0016	CHEM1015L	
CHEM1015L	General Chemistry I Lab	SC	1		CHEM1015	
Total			**17**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
BIOL1302	Biodiversity	PC	3	BIOL1151	BIOL1302L	
BIOL1302L	Biodiversity Lab	PC	1	BIOL1151L	BIOL1302	
BIOL1332	Reproduction, Growth and Development	PC	3	BIOL1151	BIOL1332L	
BIOL1332L	Reproduction, Growth and Development Lab	PC	1	BIOL1151L	BIOL1332	
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry II Lab	SC	1	CHEM1015L	CHEM1025	
Total			**18**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
Total			**6**			
Year 2 – Semester 1 – August to December						
PHIL1014	Ethics	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
BIOL2151	Plant Physiology*	PC	3	BIOL1151	BIOL2401L	
BIOL2351	Genetics and Evolution	PC	3	BIOL1151	BIOL2401L	

BIOL2401L	Plant Physiology and Genetics & Evolution Lab*	PC	1		BIOL2151, BIOL2351	
PHYS1015	General Physics I	SC	3		PHYS1312L	
PHYS1015L	General Physics I Lab	SC	1		PHYS1312	
MATH2011	Biostatistics I	SC	3			
Total			**16/20**			
Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
BIOL2352	Animal Physiology*	PC	3	BIOL1151	BIOL2552L	
BIOL2402	Ecology	PC	3	BIOL1302	BIOL2502L	
BIOL2552L	Animal Physiology and Ecology Lab*	PC	1		BIOL2352, BIOL2402	
CHEM1032	Introduction to Organic and Biochemistry	SC	3	CHEM1015	CHEM1032L	
CHEM1032L	Introduction to Organic and Biochemistry Lab	SC	1	CHEM1015L	CHEM1032	
Total			**13/17**			
Year 3 – Semester 1 – August to December						
EDUC3141	Introduction to Curriculum Development	PC	3	EDUC2224		
EDUC3051	Philosophy of Education	PC	3	ENGL1025		
BIOL3302/ BIOL3302L	Lower Plants & Lab	PC	4			
BIOL3151/ BIOL3151L	Natural History of Invertebrates & Lab	PC	4	BIOL1151, BIOL2402		
EDUC3552	Adolescent Psychology	PC	3	PYSC1014		
Total			**17**			
Year 3 – Semester 2 – January to May						
BIOL3402/ BIOL3402L	General Microbiology & Lab	PC	4			
BIOL3362/ BIOL3362L	Biochemistry & Molecular Biology & Lab	PC	4	CHEM1032, BIOL2351, CHEM1032L		
BIOL4151/ BIOL4151L	Higher Plants & Lab	PC	4	BIOL3302, BIOL3302L		
EDUC3302	Instructional Techniques	PC	3	EDUC224, EDUC1401		
Total			**15**			
Year 3 – Semester 3 – June to July						
EDUC3453	Classroom Assessment	PC	3	EDUC2224		
EDUC3403	Psychology of Learning	PC	3	PSYC1014, EDUC2224		
EDUC4153	Professionalism in Education	PC	3	EDUC3101, EDUC2222		
Total			**9**			
Year 4 – Semester 1 – August to December						
SPED3111	Introduction to Special Education	PC	3	PSYC1014		

ESCI4051	Science Methods	PC	3			
EDUC3905	Field Experience	PC	3	EDUC2224		
EDUC4256	Measurement and Evaluation	PC	3	EDUC3453		
ADVANCED BIOLOGY ELECTIVES						
BIOL4352, BIOL4352L	Ecology & Evolution & lab **OR**	EL	4	BIOL1151, BIOL2402		
BIOL4451, BIOL4451L	Entomology & Lab **OR**			BIOL3151		
BIOL4601	Animal Behavior **OR**					
BIOL4501, BIOL4501L	Plant Biotechnology & Lab			BIOL3402, BIOL3402L		
Total			**16**			
Year 4 – Semester 2 – January to May						
EDUC3252	Introduction to Guidance and Counseling	PC	3	PYSC1014		
EDUC3101	Social Context of Schooling	PC	3	SOCL1014		
EDUC3454	Instructional Technology	PC	3	EDUC2224, CMPS1011		
EDUC4201	Research in Education	PC	3	RSCH2014		
EDUC4855	Pre-Directed Teaching Seminar	PC	3	EDUC3302, EDUC3141		
EDUC4301	Content Area Reading	PC	3	ENGL1025		
Total			**18**			
Year 5 – Semester 1 – August to December						
EDUC4995	Internship	PC	9	All Methods Courses		
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**102**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**19**
EL	Elective	A course chosen by a student from a set of approved options within an education program that is not part of the core or required curriculum.	**4**
Total			**158**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- Students can choose between **BIOL2151 & BIOL2401L** or **BIOL2352 & BIOL2552L**
- **General Education Core** courses are offered every semester, including Summer.

- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- All students must enroll in Pre-Directed Teaching Seminar (EDUC4855) one semester before pursuing internship.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT AND SOCIAL SCIENCES
Bachelor of Science Business Administration – Finance (BBFN)
Full-Time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ACTG1014	Principles of Financial Accounting I	PC	3			
NRMP1014	Environmental Conservation & Development	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
MGMT1014	Fundamentals of Management	PC	3	None		
HIST1014	Introduction to Belizean History	GEC	3			
TOTAL			**18**			
Year 1 – Semester 2 – January to May						
ACTG1054	Principles of Financial Accounting II	PC	3	ACTG1014		
ENGL1025	College English II	GEC	3	ENGL1014		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1025		
MATH2025	Business Statistics I	SC	3	MATH 1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
MGMT2015	Introduction to Entrepreneurship	PC	3	MGMT 1014		
TOTAL			**18**			
Year 2 – Semester 1 – August to December						
BCOM2014	Business Communication	SC	3	ENGL 1025		
CRTH1014	Critical Thinking	GEC	3			
ECON2015	Principles of Economics	PC	3	MATH1014		
FNAN2014	Principles of Finance	PC	3	ACTG1054		
MKTG2015	Principles of Marketing	PC	3	MGMT1014; ENGL1025		
RSCH2014	Research Methods	GEC	3	ENGL1025		
TOTAL			**18**			
Year 2 – Semester 2 – January to May						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
CMPS1024	Computer Business Application	SC	3	CMPS1014		
MGMT2055	Business Ethics	PC	3	MGMT1014; ENGL1025		
BLAW2014	Business Law	SC	3	ENGL1025		
PHIL1014	Ethics	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
TOTAL			**18**			

Year 3 – Semester 1 – August to December						
ACTG3015	Principles of Managerial Accounting	SC	3	FNAN2014		
MGMT3015	Organizational Behavior	SC	3	MGMT1014		
MATH3042	Business Calculus	SC	3	MGMT1014		
FNAN3015	Principles of Financial Management	SC	3	FNAN2014		
MATH3025	Business Statistics II	SC	3	MATH2025		
CMPS3012	Management Information System	SC	3	CMPS1024, MGMT1014		
Total			**18**			
Year 3 – Semester 2 – January to May						
ECON4015	Managerial Economics	PC	3	MATH3042, ECON2015		
MGMT3105	Human Resource Management	PC	3	MGMT1014, MGMT2055, MGMT3015		
MGMT3155	Socio Economic Development	PC	3	ECON2015		
MGMT4105	Production & Operation Management	PC	3	MGMT1014, MATH2025		
RSCH4015/ RSCH4015T ***	Research Methods for Social Sciences	SC	3	RSCH2014		
MGMT4015	Small Business Management	PC	3	MKTG2015, MGMT3015, FNAN3015		
Total			**18**			
Year 4 – Semester 1 – August to December						
MGMT4150	Business, Government & Society	PC	3	MGMT3015		
FNAN4155	Regulatory Environment of Banking & Finance	PC	3	FNAN3015		
FNAN4360	Financial Markets and Institutions	PC	3	FNAN3015		
FNAN4030	International Financial Management	PC	3	FNAN3015		
FNAN4035	Risk Analysis and Management	PC	3	FNAN3015		
BUSS4015	Public Finance	SC	3	ECON2015, FNAN3015		
Total			**18**			
Year 4 – Semester 2 – January to May						
MGMT4023	Decision Making in Management	PC	3	MATH 3025, MGMT4105		
MGMT4155	Business Strategy and Policy	PC	3	Final Semester	BBU4205/ BBUA4995	
BBUA4995/ BBUA4205	Internship **OR** Undergraduate Thesis	PC	12	Final Semester with only 4 courses remaining	MGMT4155	
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**72**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**36**
Total			**147**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course,** which provides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core:** courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**
- ***Students are required to enroll in RSCH 4015 if they plan to do Internship or RSCH4015T if they plan to do Thesis in their final semester.

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT AND SOCIAL SCIENCES
Bachelor of Science Business Administration – Management (BBMN)
Full-Time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ACTG1014	Principles of Financial Accounting I	PC	3			
NRMP1014	Environmental Conservation & Development	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
MGMT1014	Fundamentals of Management	PC	3	None		
HIST1014	Introduction to Belizean History	GEC	3			
TOTAL			**18**			
Year 1 – Semester 2 – January to May						
ACTG1054	Principles of Financial Accounting II	PC	3	ACTG1014		
ENGL1025	College English II	GEC	3	ENGL1014		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1025		
MATH2025	Business Statistics I	SC	3	MATH 1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
MGMT2015	Introduction to Entrepreneurship	PC	3	MGMT 1014		
TOTAL			**18**			
Year 2 – Semester 1 – August to December						
BCOM2014	Business Communication	SC	3	ENGL 1025		
CRTH1014	Critical Thinking	GEC	3			
ECON2015	Principles of Economics	PC	3	MATH1014		
FNAN2014	Principles of Finance	PC	3	ACTG1054		
MKTG2015	Principles of Marketing	PC	3	MGMT1014; ENGL1025		
RSCH2014	Research Methods	GEC	3	ENGL1025		
TOTAL			**18**			
Year 2 – Semester 2 – January to May						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
CMPS1024	Computer Business Application	SC	3	CMPS1014		
MGMT2055	Business Ethics	PC	3	MGMT1014; ENGL1025		
BLAW2014	Business Law	SC	3	ENGL1025		
PHIL1014	Ethics	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3	ENGL1014		
TOTAL			**18**			

Year 3 – Semester 1 – August to December						
ACTG3015	Principles of Managerial Accounting	SC	3	FNAN2014		
MGMT3015	Organizational Behavior	PC	3	MGMT1014		
MATH3042	Business Calculus	SC	3	MGMT1014		
FNAN3015	Principles of Financial Management	PC	3	FNAN2014		
MATH3025	Business Statistics II	SC	3	MATH2025		
CMPS3012	Management Information System	SC	3	CMPS1024, MGMT1014		
Total			**18**			
Year 3 – Semester 2 – January to May						
ECON4015	Managerial Economics	SC	3	MATH3042, ECON2015		
MGMT3105	Human Resource Management	PC	3	MGMT1014, MGMT2055, & MGMT 3015		
MGMT3155	Socio Economic Development	PC	3	ECON2015		
MGMT4105	Production & Operation Management	PC	3	MGMT1014 & MATH2025		
RSCH 4015/ RSCH4015T ***	Research Methods for Social Sciences	SC	3	RSCH2014		
MGMT4015	Small Business Management	PC	3	MKTG2015, MGMT3015 & FNAN3015		
Total			**18**			
Year 4 – Semester 1 – August to December						
MGMT4150	Business, Govt. & Society	PC	3	MGMT3015		
MGMT4360	Industrial Relations	PC	3	MGMT1014		
MGMT4330/ MGMT3055	Introduction to International Business	PC	3	MKTG2015, ECON2014 & MGMT3015		
MGMT4050	Entrepreneurship and Opportunity	PC	3	MGMT2015		
MKTG4015	Marketing Management	PC	3	MKTG2015		
MGMT4051	Public Administration and Policy	PC	3	MGMT3015		
Total			**18**			
Year 4 – Semester 2 – January to May						
MGMT4023	Decision Making in Management	PC	3	MATH 3025, MGMT4105		
MGMT4155	Business Strategy and Policy	PC	3	Final Semester	BBU4205/ BBUA4995	
BBUA4995/ BBUA4205	Internship **OR** Undergraduate Thesis	PC	12	Final semester with only 4 courses remaining	MGMT4155	
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**78**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**30**
Total			**144**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course,** which provides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**
- ***Students are required to enroll in RSCH 4015 if they plan to do Internship or RSCH4015T if they plan to do Thesis in their final semester.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT AND SOCIAL SCIENCES
Bachelor Degree in Business Administration – Marketing (BBMK)
Full-time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ACTG1014	Principles of Financial Accounting I	PC	3			
NRMP1014	Environmental Conservation & Development	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
MGMT1014	Fundamentals of Management	PC	3			
HIST1014	Introduction to Belizean History	GEC	3			
TOTAL			**18**			
Year 1 – Semester 2 – January to May						
ACTG1054	Principles of Financial Accounting II	PC	3	ACTG1014		
ENGL1025	College English II	GEC	3	ENGL1014		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1025		
MATH2025	Business Statistics I	SC	3	MATH 1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
MGMT2015	Introduction to Entrepreneurship	PC	3	MGMT 1014		
Total			**18**			
Year 2 – Semester 1 – August to December						
BCOM2014	Business Communication	SC	3	ENGL 1025		
CRTH1014	Critical Thinking	GEC	3			
ECON2015	Principles of Economics	PC	3	MATH1014		
FNAN2014	Principles of Finance	PC	3	ACTG1054		
MKTG2015	Principles of Marketing	PC	3	MGMT1014; ENGL1025		
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**18**			
Year 2 – Semester 2 – January to May						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
CMPS1024	Computer Business Application	SC	3	CMPS1014		
MGMT2055	Business Ethics	PC	3	MGMT1014; ENGL1025		
BLAW2014	Business Law	SC	3	ENGL1025		
PHIL1014	Ethics	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**18**			

Year 3 – Semester 1 – August to December						
ACTG3015	Principles of Managerial Accounting	SC	3	FNAN2014		
MGMT3015	Organizational Behavior	PC	3	MGMT1014		
MATH3042	Business Calculus	SC	3	MGMT1014		
FNAN3015	Principles of Financial Management	PC	3	FNAN2014		
MATH3025	Business Statistics II	SC	3	MATH2025		
CMPS3012	Management Information System	SC	3	CMPS1024, MGMT1014		
Total			**18**			
Year 3 – Semester 2 – January to May						
ECON4015	Managerial Economics	SC	3	MATH3042, ECON2015		
MGMT3105	Human Resource Management	PC	3	MGMT1014, MGMT 2055, MGMT 3015		
MGMT3155	Socio Economic Development	PC	3	ECON2015		
MGMT4105	Production & Operations Management	PC	3	MGMT1014 & MATH2025		
RSCH 4015/ RSCH4015T ***	Research Methods for Social Sciences	SC	3	RSCH2014		
MGMT4015	Small Business Management	PC	3	MKTG2015, MGMT 3015, FNAN3015		
Total			**18**			
Year 4 – Semester 1 – August to December						
MKTG4115	Marketing Research	PC	3	MKTG2015		
MKTG4015	Marketing Management	PC	3	MKTG2015		
MKTG4035	Integrated Marketing Communication	PC	3	MKTG2015		
MKTG4030	Consumer Behavior	PC	3	MKTG2015		
MKTG4025	International Marketing Management	PC	3	MKTG2015		
MKTG4125	Digital Marketing	PC	3	MKTG2015 & CMPS1024		
Total			**18**			
Year 4 – Semester 2 – January to May						
MGMT4023	Decision Making in Management	PC	3	MATH 3025, MGMT4105		
MGMT4155	Business Strategy and Policy	PC	3	Final Semester	BBU4205/ BBUA4995	
BBUA4995 BBUA4205	Internship **OR** Undergraduate Thesis	PC	12	Final Semester with only 4 courses remaining	MGMT4155	
Total			**18**			

Code	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**78**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**30**
Total			**144**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course,** which provides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**
- ***Students are required to enroll in RSCH 4015 if they plan to do Internship or RSCH4015T if they plan to do Thesis in their final semester.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS (FEA)
Education Department
Bachelor Degree in Business Education-Accounting (BBUE)
Program Sequence 2025

PREREQUISITES (72 CREDITS – from any feeder institution)

SPECIAL COMPETENCIES (12 CREDITS)						PROFESSIONAL CORE 39 CREDITS)				
Course ID	**Course Name**	**Cr**		**Grade**		**Course ID**	**Course Name**	**Cr**		**Grade**
ENGL1014	College English I	3	GEC			EDUC2224	Teaching Methods for Secondary Level	3	SC	
ENGL1025	College English II	3	GEC			ACTG1014	Principles of Accounting 1	3	SC	
SPAN1025	Level 2 Lower Intermediate Spanish	3	GEC			ACTG1054	Principles of Accounting 2	3	SC	
RSCH2014	Research Methods	3	GEC			BCOM2014	Business Communication	3	SC	
MATHS & NATURAL SCIENCES (9 CREDITS)						CMPS1024	Computer Business Application	3	SC	
Course ID	**Course Name**	**Cr**		**Grade**		ECON2015	Principles of Economics	3	SC	
MATH1014	Intermediate Algebra	3	GEC			FNAN2014	Principles of Finance	3	SC	
CMPS1014	Introduction to Computer Studies	3	GEC			MGMT2055	Business Ethics	3	SC	
_____	Natural Science Elective	3	GEC			MATH2025	Business Statistics 1	3	SC	
SOCIAL SCIENCES (9 CREDITS)						BLAW2014	Business Law	3	SC	
Course ID	**Course Name**	**Cr**		**Grade**						
PSYC1014	Introduction to Psychology	3	GEC							
SOCL1014	Introduction to Sociology	3	GEC							
MGMT1014/ ECON1014	Fundamentals of Management **or** Introduction to Economics	3	GEC							
HUMANITIES (9 CREDITS)										
Course ID	**Course Name**	**Cr**		**Grade**						
PHIL1014	Ethics	3	GEC							
HIST1014	Introduction to Belizean History	3	GEC							
CRTH1014	Critical Thinking	3	GEC							

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
ACTG3051	Intermediate Accounting I	PC	3	ACTG1054		
ACTG3151	Cost Accounting I	PC	3	ACTG1054		
EDUC3141	Introduction to Curriculum Development	PC	3	EDUC2224		
EDUC3451	Philosophy of Education	PC	3	ENGL1025		
MATH3025	Business Statistics II	PC	3	MATH2025		
TAXA3011	Taxation I	PC	3	ACTG3151		
Total			**21**			
Year 1 – Semester 2 – January to May						
ACTG3102	Intermediate Accounting II	PC	3	ACTG3051		
ACTG3202	Cost Accounting II	PC	3	ACTG3151		
FNAN3015	Financial Management	PC	3	FNAN2014, ACTG1054		
MATH3042	Business Calculus	PC	3	MATH1014		
TAXA3052	Taxation II	PC	3	TAXA3011		
Total			**15**			
Year 1 – Semester 3 – June to July						
EDUC3453	Classroom Assessment	PC	3	EDUC2224		
EDUC3403	Psychology of Learning	PC	**3**	PSYC1014, EDUC2224		
EDUC4153	Professionalism in Education	PC	**3**	PHIL1014		
EDUC4256	Measurement & Evaluation	PC	**3**	EDUC3453		
SPAN2015	Level III Intermediate Spanish	GC	**3**	Spanish Placement Test/ SPAN1025		
Total			**15**			
Year 2 – Semester 1 – August to December						
ACTG4011	Advanced Financial Accounting I	PC	3	ACTG3151, ACTG3202		
ACTG4101	Not for Profit/Government Accounting	PC	3	ACTG3151, ACTG3202		
ACTG4151	Auditing and Investigation I	PC	3	ACTG3151, ACTG3202		
EDUC4201	Research in Education	PC	3	RSCH2014		
EDUC3302	Instructional Techniques	PC	3	EDUC2224		
EDUC3905	Field Experience	PC	3	EDUC2224		
Total			**18**			
Year 2 – Semester 2 – January to May						
ACTG4052	Advanced Financial Accounting II	PC	3	ACTG4011,ACTG4101, ACTG3102		
BUSS4015	Public Finance	PC	3	ECON2015, FNAN3015		
EDUC3454	Instructional Technology	PC	3	EDUC2224		
EDUC3252	Introduction to Guidance & Counselling	PC	3	PSYC1014		

EDUC3552	Adolescent Psychology	PC	3	PSYC1014		
EDUC4855	Pre-directed Teaching Seminar	PC	3	EDUC3302, EDUC3141		
Total			**18**			
Year 3 – Semester 1 – August to December						
EDUC4995	Internship	PC	9			
EDUC3101	Social Context of Schooling	PC	3	SOCL1014		
Total			**12**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**42**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**96**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**30**
Total			**168**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS (FEA)
Education Department
Bachelor Degree in Business Education-Information Technology (BBUE)
Program Sequence 2025

PREREQUISITES (72 CREDITS – from any feeder institution)

SPECIAL COMPETENCIES (12 CREDITS)

Course ID	Course Name	Cr		Grade
ENGL1014	College English 1	3	GC	
ENGL1025	College English 2	3	GC	
SPAN1025	Level II LOWER-INTERMEDIATE Spanish	3	GC	
RSCH2014	Research Methods	3	GC	

MATHS & NATURAL SCIENCES (9 CREDITS)

Course ID	Course Name	Cr		Grade
MATH1014	Intermediate Algebra	3	GC	
CMPS1014	Introduction to Computer Science	3	GC	
_____	Natural Science Elective	3	GC	

SOCIAL SCIENCES (9 CREDITS)

Course ID	Course Name	Cr		Grade
PSYC1014	Introduction to Psychology	3	GC	
SOCL1014	Introduction to Sociology	3	GC	
MGMT1014 **or**	Fundamentals of Management **or**	3	GC	
ECON1014	Intro to Economics		GC	

HUMANITIES (9 CREDITS)

Course ID	Course Name	Cr		Grade
PHIL1014	Ethics	3	GC	
HIST1014	Introduction to Belizean History	3	GC	
CRTH1014	Critical Thinking	3	GC	

PROFESSIONAL CORE 39 CREDITS)

Course ID	Course Name	Cr		Grade
EDUC2224	Teaching Methods	3	SC	
CMPS1131	Principles of Programming I	3	SC	
CMPS1134	Fundamentals of Computing	3	SC	
CMPS1211	Hardware Fundamentals	3	SC	
CMPS1232	Principles of Programming II	3	SC	
CMPS1171	Introduction to Data Base	3	SC	
CMPS1191	Networking Fundamentals	3	SC	
CMPS2111	System Analysis and Design	3	SC	
CMPS2151	Web App Development	3	SC	
CMPS2242	Systems Programming and Com Org.	3	SC	
MATH1151	Algebra	3	SC	
MATH1252	Trigonometry	3	SC	
MATH1302	Calculus I	3	SC	

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
SPED3111	Introduction to Special Education	PC	3	PSYC1014		
EDUC3141	Introduction to Curriculum Development	PC	3	EDUC2224		
EDUC3451	Philosophy of Education	PC	3	ENGL1025		
CMPS3171	Network Design	PC	3	CMPS2091		
ENGL3155	Technical Writing	PC	3	ENGL1025		
Total			**15**			
Year 1 – Semester 2 – January to May						
EDUC3252	Introduction to Guidance Counseling	PC	3	PSYC2014		
EDUC3552	Adolescent Psychology	PC	3	PSYC1014		
EDUC3302	Instructional Techniques	PC	3	EDUC2224		
EDUC3905	Field Experience	PC	3	EDUC2224		
CMPS3162	Advanced Databases	PC	3	CMPS2091		
MGMT3105	Human Resource Management	PC	3	MGMT1014, 2055, 3015		
Total			**18**			
Year 1 – Semester 3 – June to July						
EDUC3453	Classroom Assessment	PC	3	EDUC2224		
EDUC3553	Psychology of Learning	PC	**3**	PSYC2014		
EDUC4153	Professionalism in Education	PC	**3**	PHIL1014		
EDUC4256	Measurement & Evaluation	PC	**3**	EDUC3453		
SPAN2015	Level III Intermediate Spanish	GC	**3**	Spanish Placement Test/ SPAN1015, SPAN1025		
Total			**15**			
Year 2 – Semester 1 – August to December						
EDUC4301	Content Area Reading	PC	3	ENGL1025		
EDUC3101	Social Context of Schooling	PC	3	SOCL2014		
MATH2151	Statistics I	SC	3			
	Approved IT Elective 1*	SC	3			
	Approved IT Elective 2*	SC	3			
	Approved IT Elective 3*	SC	3			
Total			**18**			
Year 2 – Semester 2 – January to May						
EDUC4855	[2]Pre-DirectedTeaching Seminar	PC	3	EDUC3302 & EDUC3141		
EDUC3454	Instructional Technology	PC	3	CMPS1011		
MATH2351	Statistics II	SC	3	None		
EDUC4201	Research in Education	PC	3	RSCH2014		
Total			**12**			
Year 3 – Semester 1 – August to December						
EDUC4995 (**EDUC452**)	Internship	**PC**	**9**			
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**42**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**69**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**54**
Total			**165**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS (FEA)
Education Department
Bachelor in Business Education- Management (BBUE)
Program Sequence 2025

PREREQUISITES (72 CREDITS – from any feeder institution)

SPECIAL COMPETENCIES (12 CREDITS)

Course ID	Course Name	Cr		Grade
ENGL1014	College English 1	3	GC	
ENGL1025	College English 2	3	GC	
SPAN1025	Level II LOWER-INTERMEDIATE Spanish	3	GC	
RSCH2014	Research Methods	3	GC	

MATHS & NATURAL SCIENCES (9 CREDITS)

Course ID	Course Name	Cr		Grade
MATH1014	Intermediate Algebra	3	GC	
CMPS1014	Introduction to Computer Science	3	GC	
_____	Natural Science Elective	3	GC	

SOCIAL SCIENCES (9 CREDITS)

Course ID	Course Name	Cr		Grade
PSYC1014	Introduction to Psychology	3	GC	
SOCL1014	Introduction to Sociology	3	GC	
MGMT1014 **or**	Fundamentals of Management **or**	3	GC	
ECON1014	Intro to Economics		GC	

HUMANITIES (9 CREDITS)

Course ID	Course Name	Cr		Grade
PHIL1014	Ethics	3	GC	
HIST1014	Introduction to Belizean History	3	GC	
CRTH1014	Critical Thinking	3	GC	

PROFESSIONAL CORE 39 CREDITS)

Course ID	Course Name	Cr		Grade
EDUC2224	Teaching Methods	3	SC	
ACTG1014	Principles of Accounting 1	3	SC	
ACTG1054	Principles of Accounting 2	3	SC	
BCOM2014	Business Communication	3	SC	
CMPS1024	Computer Business Application	3	SC	
ECON1015	Introduction to Economics	3	SC	
MKTG2015	Principles of Marketing	3	SC	
FNAN2014	Principles of Finance	3	SC	
MGMT2055	Business Ethics	3	SC	
QMGT2025	Business Statistics 1	3	SC	
BLAW2014	Business Law	3	SC	

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
EDUC3141	Introduction to Curriculum Development	PC	3	EDUC2224		
EDUC3252	Introduction to Guidance and Counseling	PC	3	PSYC2014		
EDUC3451	Philosophy of Education	PC	3	ENGL1025		
MGMT3015	Organizational Behavior	PC	3	MGMT1014		
MATH3051	Quantitative Methods	PC	3	MATH2042		
SPED3111	Introduction to Special Education	SC	3			
Total			**21**			
Year 1 – Semester 2 – January to May						
EDUC3552	Adolescent Psychology	PC	3	PSYC1014		
EDUC3302	Instructional Techniques	PC	3	EDUC2224 or EDUC1402		
FNAN3015	Financial Management	PC	3	ACTG1054, FNAN2014		
MATH3032	Business Calculus	PC	3	MATH3021		
MGMT3105	Human Resource Management	PC	3	MGMT1014, 2055, 3015		
Total			**15**			
Year 1 – Semester 3 – June to July						
EDUC3453	Classroom Assessment	**PC**	3	EDUC2224 or EDUC1402		
EDUC3553	Psychology of Learning	**PC**	**3**	PSYC2014		
EDUC4153	Professionalism in Education	**PC**	**3**	PHIL1014		
EDUC4256	Measurement & Evaluation	**PC**	**3**	EDUC453		
SPAN2015	Level III Intermediate Spanish	**GC**	**3**	Spanish Placement Test/ SPAN1015, SPAN1025		
Total			**15**			
Year 2 – Semester 1 – August to December						
EDUC4301	Content Area Reading	PC	3	ENGL1025		
EDUC4201	Research in Education	PC	3	RSCH2014		
EDUC3905	Field Experience	PC	3	EDUC2224		
CMPS3012	Management Information Systems	PC	3	(CMPS150)		
MGMT3155	Socio Economic Development	PC	3	MGMT3015, ECON2054		
MGMT4051	Public Administration & Policy	PC	3	None		
Total			**18**			
Year 2 – Semester 2 – January to May						
MGMT3055	International Business	PC	3	MKTG2015, ECON2015 & MGMT3015		
MGMT4195	Business Strategy and Policy	PC	3	None		
MGMT4015	Small Business Management	PC	3	MKTG2015, MGMT3015 & FNAN3015		
MGMT4105	Production Operation Management	PC	3	None		
EDUC4855	Pre-directed Teaching Seminar	PC	3	EDUC3302, EDUC3141		
EDUC3454	Instructional Technology	PC	3	CMPS1011		
Total			18			
Year 3 – Semester 1 – August to December						
EDUC4995	Internship	**PC**	9			

EDUC3101	Social Context of Schooling	PC	3	SOCL2014		
Total		**12**				

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**45**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**90**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**36**
Total			**171**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Bachelor of Science in Chemistry (BCHM)
Program Sequence 2025 (odd years)

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
CHEM1201	General Chemistry for Majors (I)	PC	4	HS Chemistry	CHEM1201L	
CHEM1201L	General Chemistry for Majors (I) Lab	PC	1		CHEM1201	
BIOL1151	Cytology	SC	3		BIOL1151L	
BIOL1151L	Cytology Lab	SC	1		BIOL1151	
MATH1151	Algebra	SC	3	MATH1014/ Math Placement		
MATH1201	Trigonometry	SC	3	Placement Test		
Total			**18**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
PSYC1014/ SOCL1014	Introduction to Psychology or Introduction to Sociology	GEC	3			
CHEM1212	General Chemistry for Majors (II)	PC	4	CHEM1201 & MATH1151	CHEM1212L	
CHEM1212L	General Chemistry for Majors (II) Lab	PC	1	CHEM1201L	CHEM1212	
CHEM1032	Organic and Biochemistry	PC	3	CHEM1201 or CHEM1015		
MATH1302	Calculus (I)	SC	3	MATH1151 & MATH1201		
Total			**20**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
Total			**3**			
Year 2 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
SPAN1025	Lower Intermediate Spanish Level II	GEC	3	Spanish Placement /SPAN1015		
CHEM2161	Introduction to Inorganic Chemistry	PC	3	CHEM1201	CHEM2161L	
CHEM2161L	Introduction to Inorganic Chemistry Lab	PC	1	CHEM1201L	CHEM2161	
CHEM1252	Organic Chemistry (I)	PC	3	CHEM1032	CHEM1252L	

CHEM1252L	Organic Chemistry (I) Lab	PC	1		CHEM1252	
PHYS 1015	General Physics (I)	SC	3		PHYS1015L	
PHYS 1015L	General Physics (I) Lab	SC	1		PHYS1015	
Total			**19**			
Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
PHIL1014	Ethics	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics or Introduction to Management	GEC	3			
CHEM2201	Organic Chemistry (II)	PC	3	CHEM1252	CHEM2201L	
CHEM2201L	Organic Chemistry (II) Lab	PC	1	CHEM1252L	CHEM2201	
PHYS1025	General Physics II	SC	3	PHYS1015	PHYS1025L	
PHYS1025L	General Physics II Lab	SC	1	PHYS1015L	PHYS1025	
Total			**17**			
Year 3 – Semester 1 – August to December						
MATH2011	Biostatistics I	SC	3			
CHEM3451	Seminar I	PC	1			
BIOL3251*	Biochemistry I	PC	3	CHEM1032	BIOL3251L	
BIOL3251L*	Biochemistry I Lab	PC	1	CHEM1032L/ CHEM1252L	BIOL3251	
CHEM4301*	Pesticide Chemistry	PC	3	CHEM2201	CHEM4401L	
CHEM4351*	Forensic Chemistry	PC	3	CHEM2201& CHEM1212	CHEM4401	
CHEM4401L*	Applied Chemistry Laboratory II	PC	1		CHEM4301& CHEM4351	
SPAN2015	Intermediate Spanish Level III	GC	3	Spanish Placement/ SPAN1025		
Total			**15**			
Year 3 – Semester 2 – January to May						
MATH3012	Biostatistics II	SC	3	MATH2011		
MATH2201	Calculus II	SC	3	MATH1302		
CHEM4251*	Instrumental Analysis	PC	3	CHEM2201		
CHEM4502*	Green Chemistry	PC	3	CHEM2201		
SCIE4551	Scientific Proposal Writing	SC	3			
Total			**15**			
Year 4 – Semester 1 – August to December						
CHEM3252	Advanced Organic Chemistry	PC	3	CHEM2201		
CHEM3502	Seminar II	PC	1	CHEM3451		
CHEM4201	Physical Chemistry I	PC	3	MATH2201& CHEM1202		
CHEM3352*	Soil Chemistry	PC	3	CHEM2161	CHEM3452L	
CHEM3402*	Food Chemistry	PC	3	BIOL3251	CHEM3452L	
CHEM3452L*	Applied Chemistry Laboratory I	PC	1	CHEM1212L	CHEM3352& CHEM3402	
CHEM3202*	Inorganic Chemistry	PC	3	CHEM2161		
Total			**17**			
Year 4 – Semester 2 – January to May						
CHEM3201*	Analytical Chemistry	PC	3	CHEM1212	CHEM3201L	

CHEM3201L *	Analytical Chemistry Lab	PC	1	CHEM1212L	CHEM3201	
CHEM3401*	Industrial Chemistry	PC	3	CHEM2201		
CHEM4452	Physical Chemistry II	PC	3	CHEM4201		
CHEM4492	Thesis Research	PC	6	SCIE4551, CHEM3451, CHEM3502		
Total			**16**			

*Courses are only offered every other year

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**30**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**76**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**33**
	TOTAL		**139**
PR	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
CR	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- *Courses are only offered every other year
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- **Program sequence revised: July 2025**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Bachelor of Science in Chemistry (BCHM)
Program Sequence 2025 (even years)

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement / English ATLIB	None	
CHEM1201	General Chemistry for Majors (I)	PC	4	HS Chemistry	CHEM1201L	
CHEM1201L	General Chemistry for Majors (I) Lab	PC	1		CHEM1201	
BIOL1151	Cytology	SC	3		BIOL1151L	
BIOL1151L	Cytology Lab	SC	1		BIOL1151	
MATH1151	Algebra	SC	3	MATH1014/ Math Placement		
MATH1201	Trigonometry	SC	3	Placement Test		
Total			**18**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
PSYC1014/ SOCL1014	Introduction to Psychology or Introduction to Sociology	GEC	3			
CHEM1212	General Chemistry for Majors (II)	PC	4	CHEM1201 & MATH1151	CHEM1212L	
CHEM1212L	General Chemistry for Majors (II) Lab	PC	1	CHEM1201L	CHEM1212	
CHEM1032	Organic and Biochemistry	PC	3	CHEM1201 or CHEM1015		
MATH1302	Calculus (I)	SC	3	MATH1151 & MATH1201		
Total			**20**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
Total			**3**			
Year 2 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
SPAN1025	Lower Intermediate Spanish level II	GEC	3	Spanish Placement /SPAN1015		
CHEM2161	Introduction to Inorganic Chemistry	PC	3	CHEM1201	CHEM2161L	
CHEM2161L	Introduction to Inorganic Chemistry Lab	PC	1	CHEM1201L	CHEM2161	

CHEM1252	Organic Chemistry (I)	PC	3	CHEM1032	CHEM1252L	
CHEM1252L	Organic Chemistry (I) Lab	PC	1		CHEM1252	
PHYS 1015	General Physics (I)	SC	3		PHYS1015L	
PHYS 1015L	General Physics (I) Lab	SC	1		PHYS1015	
Total			**19**			
Year 2 – Semester 2 – January to May						
HIST1014	Introduction to Belizean History	GEC	3			
PHIL1014	Ethics	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics or Introduction to Management	GEC	3			
CHEM2201	Organic Chemistry (II)	PC	3	CHEM1252	CHEM2201L	
CHEM2201L	Organic Chemistry (II) Lab	PC	1	CHEM1252L	CHEM2201	
PHYS1025	General Physics II	SC	3	PHYS1015	PHYS1025L	
PHYS1025L	General Physics II Lab	SC	1	PHYS1015L	PHYS1025	
Total			**17**			
Year 3 – Semester 1 – August to December						
MATH2011	Biostatistics I	SC	3			
CHEM3451	Seminar I	PC	1			
CHEM3352*	Soil Chemistry	PC	3	CHEM2161	CHEM3452L	
CHEM3402*	Food Chemistry	PC	3	BIOL3251	CHEM3452L	
CHEM3452L*	Applied Chemistry Laboratory I	PC	1	CHEM1212L	CHEM3352& CHEM3402	
CHEM3202*	Inorganic Chemistry	PC	3	CHEM2161		
SPAN2015	Intermediate Spanish Level III	GC	3	Spanish Placement/ SPAN1025		
Total			**17**			
Year 3 – Semester 2 – January to May						
MATH3012	Biostatistics II	SC	3	MATH2011		
MATH2201	Calculus II	SC	3	MATH1302		
CHEM3201*	Analytical Chemistry	PC	3	CHEM1212	CHEM3201L	
CHEM3201L*	Analytical Chemistry Lab	PC	1	CHEM1212L	CHEM3201	
CHEM3401*	Industrial Chemistry	PC	3	CHEM2201		
SCIE4551	Scientific Proposal Writing	SC	3			
Total			**16**			
Year 4 – Semester 1 – August to December						
BIOL3251*	Biochemistry I	PC	3	CHEM1032	BIOL3251L	
BIOL3251L*	Biochemistry I Lab	PC	1	CHEM1032L/ CHEM1252L	BIOL3251	
CHEM3252	Advanced Organic Chemistry	PC	3	CHEM2201		
CHEM3502	Seminar II	PC	1	CHEM3451		
CHEM4201	Physical Chemistry I	PC	3	MATH2201& CHEM1202		
CHEM4301*	Pesticide Chemistry	PC	3	CHEM2201	CHEM4401L	
CHEM4351*	Forensic Chemistry	PC	3	CHEM2201& CHEM1212	CHEM4401	

CHEM4401L*	Applied Chemistry Laboratory II	PC	1		CHEM4301& CHEM4351	
Total			**18**			
Year 4 – Semester 2 – January to May						
CHEM4251*	Instrumental Analysis	PC	3	CHEM2201		
CHEM4452	Physical Chemistry II	PC	3	CHEM4201		
CHEM4502*	Green Chemistry	PC	3	CHEM2201		
CHEM4492	Thesis Research	PC	6	SCIE4551, CHEM3451, CHEM3502		
Total			**15**			

*Courses are only offered every other year

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**30**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**76**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**33**
	TOTAL		**139**
PR	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
CR	Co-requisite	A course that a student **must take at the same time as another course, which pro**vides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- *Courses are only offered every other year
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

- **Program sequence revised: July 2025**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES

Bachelor of Science in Criminal Justice & Criminology (BCJC)

Full-time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1- Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
CRIM1011	Legal Environment	PC	3			
MGMT1014	Fundamentals of Management	GEC	3			
CJCY1014	Introduction Criminal Justice	PC	3			
POLI1014	Introduction to Public Policy	SC	3			
HIST1014	Introduction to Belizean History	GEC	3			
Total			**18**			
Year 1 Semester 2 - January to May						
ENGL1025	College English II	GEC	3	ENGL 1014		
CRIM1024	Crime & Deviance	PC	3	CJCY 1014		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement Test/ SPAN1015		
CMPS1014	Introduction to Computers	GEC	3			
CJCY1024	Introduction Criminology & Criminological Theories	PC	3	CJCY 1014		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ ATLIB Math		
Total			**18**			
Year 2 Semester 1- August to December						
CRTH1014	Critical Thinking	GEC	3			
BIOL1015	General Biology	SC	3			
CJCY2015	Corrections	PC	3			
CJCY2014	Juvenile Justice	PC	3			
CRIM1021	Criminal Law	PC	3			
ENLG1035	The Composing Process	GEC	3	ENGL 1025		
Total			**18**			
Year 2 Semester 2 -January to May						
RSCH2014	Research Methods	GEC	3	ENGL 1025		
CJCY2205	Victimology & Victimization	PC	3			
CRIM2062	Constitutional Law	PC	3			
CJCY2105	Policing	PC	3	POLI 1014		
PHIL1014	Ethics	GEC	3			
PSYC1014	Introduction to Psychology	GEC	3			
SOCL1014	Introduction to Sociology	SC	3			
Total			**21**			

Year 3 – Semester 1 – August to December						
JUST3014	Globalization & Justice	PC	3	CJCY1014		
CJCY3014	Gangs	PC	3	CJCY1014		
STAT3021	Social Statistics	SC	3	MATH1014		
CRIM3014	GIS & Crime	PC	3	CJCY1014		
CJCY3024	Ethical Issues & Decision Making in Criminal Justice and Criminology	PC	3	CJCY1014, PHIL1014		
CJCY3105	Forensic Criminology	PC	3	CJCY1014		
Total			**18**			
Year 3 – Semester 2 – January to May						
CJCY3205	Race, Gender, Class & Crime/Justice	PC	3	CJCY1014		
PSYC3025	Psychology of Crime & Criminal Behavior	SC	3	PSYC1014, CJCY1014		
CJCY3025	Law Enforcement & Administration	SC	3	CJCY1014		
RSCH4015	Research Methods for Social Sciences	SC	3	RSCH2014		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	SPAN1025		
CRIM3025	Criminal Investigation	PC	3	CJCY1014		
Total			**18**			
Year 4 – Semester 1 – August to December						
CJCY4015	Criminalistics & Crime Analysis	PC	3	CJCY1014		
CRIM4024	Media & Criminal Justice & Criminology	PC	3	CJCY1014		
CJCY4024	Crime: Intervention & Prevention	PC	3	CJCY1014		
CJCY4025	Offender Treatment & Re-entry	PC	3	CJCY1014		
PSMG3151	Admin and Constitutional Law	PC	3	CRIM1011		
CRIM4225	Human Rights in Criminology - Theory and Practice	PC	3			
Total			**18**			
Year 4 – Semester 2 – January to May						
CJCY4224	Emerging Issues: Trafficking, Domestic Violence, Rape & Sex Offenses (Cybercrimes)	PC	3	CJCY1014		
CJCY4205	Undergraduate Thesis	PC	12	Final semester with only 4 courses remaining		
Total			**15**			

Code	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses.**	**84**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**21**
Total			**144**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core:** courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS
Languages, Literature and History Department
Bachelor of Arts in English (BENG)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisite	Grade
Year 1 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English 1	GEC	3			
	Natural Science Elective	GEC	3			
CRTH1014	Critical Thinking	GEC	3			
MATH1014	Intermediate Algebra	GEC	3			
Total			**15**			
Year 1 – Semester 2 – January to May						
ENGL1025	College English 2	GEC	3	ENGL1014		
PHIL1014	Ethics	GEC	3			
LITR2152	Survey of World Literature **OR** 2000 Literature Elective	PC	3	ENGL1014		
HIST1014	Introduction to Belizean History	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**18**			
Year 2 – Semester 1 – August to December						
LITR2551	Creative Writing: Poetry **OR** 2000 Literature Elective	PC	3	ENGL1025		
SPAN1025	Level 2 Lower-Intermediate Spanish	GEC	3	Spanish Placement Test/ SPAN1015		
ENGL1035	The Composing Process	PC	3	ENGL1025		
LITR2451	Introduction to Literary Approaches **OR** 2000 Literature Elective	PC	3	ENGL1025		
LING1152	Fundamentals of Linguistics	SC	3	ENGL1025		
Total			**18**			
Year 2 – Semester 2 – January to May						
LITR2257	Caribbean Literature 1 **OR** 2000 Literature Elective	PC	3	LITR2451		
LITR2206	African Literature 1 **OR** 2000 Literature Elective	PC	3	LITR2451		
LITR2357	Latin American Literature 1 **OR** 2000 Literature Elective	PC	3	LITR2451		
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**12**			

Year 3 – Semester 1 – August to December						
LITR3101	Critical Writing & Research	PC	3	ENGL1035		
LITR4402	Latin American Literature 2	PC	3		LITR3101	
LITR4351	Caribbean Literature 2	PC	3		LITR3101	
LITR3302	African Literature 2	PC	3		LITR3101	
LING3951	Applied Linguistics	SC	3	LING1152		
Total			**15**			
Year 3 – Semester 2 – January to May						
SPAN2015	Level 3 Intermediate Spanish	GEC	3	SPAN1025		
LITR3202	Belizean Literature 2	PC	3	LITR3101		
LITR3752	World Drama: History Text & Performance	PC	3	LITR3101		
ENGL3155	Technical Writing	SC	3	ENGL1025		
LITR3402	Special Topics in Literature	PC	3	LITR3101		
LITR3802	Creative Writing: Creative Non-Fiction	PC	3	ENGL1035		
Total			**15**			
Year 4 – Semester 1 – August to December						
LITR4651	Creative Writing: Fiction	PC	3	ENGL1035		
LITR4701	Literature & the Environment	PC	3	LITR3101		
LITR3451	Survey of U.S. American Literature	PC	3	LITR3101		
LITR4751	Major Author	PC	3	LITR3101		
LITR4101	Writing & Reporting Across the Media	SC	3	ENGL3155		
Total			**15**			
Year 4 – Semester 2 – January to May						
LITR4462	Post-Colonial Studies	PC	3	LITR3101		
LITR4512	Contemporary US Multicultural Literature	PC	3	LITR3101		
LITR4652	Senior Seminar in Literature	PC	3	LITR3101		
LITR4251	Women in Literature	PC	3	LITR3101		
Total			**12**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses.**	**69**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**12**
Total			**120**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS
Languages, Literature and History Department
Bachelor of Science in English Education (BENE)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English 1	GEC	3			
	Natural Science Elective	GEC	3			
CRTH1014	Critical Thinking	GEC	3			
MATH1014	Intermediate Algebra	GEC	3			
Total			**15**			
Year 1 – Semester 2 – January to May						
ENGL1025	College English 2	GEC	3	ENGL1014		
PHIL1014	Ethics	GEC	3			
HIST1014	Introduction to Belizean History	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
PSYC1014	Introduction to Psychology	GEC	3			
Total			**15**			
Year 2 – Semester 1 – August to December						
SPAN1025	Level 2 Lower-Intermediate Spanish	GEC	3	Spanish Placement Test / SPAN1015		
RSCH1014	Research Methods	GEC	3	ENGL1025		
ENGL1035	The Composing Process	PC	3	ENGL1025		
LITR2451	Introduction to Literary Approaches **OR** 2000 Literature Elective	PC	3	ENGL1025		
LING1152	Fundamentals of Linguistics	SC	3	ENGL1025		
Total			**15**			
Year 2 – Semester 2 – January to May						
EDUC2224	Teaching Methods	PC	3			
LITR2206	African Literature 1 **OR** 2000 Literature Elective	PC	3	LITR2451		
SOCL1014	Introduction to Sociology	GEC	3			
Total			**9**			
Year 3 – Semester 1 – August to December						
EDUC3141	Introduction to Curriculum Development	PC	3	EDUC2224		
LITR4402	Latin American Literature 2	PC	3		LITR3101	
LITR3101	Critical Writing & Research	PC	3			
LITR3302	African Literature 2	PC	3		LITR3101	
LING3951	Applied Linguistics	SC	3	LING1152		
EDUC3451	Philosophy of Education	PC	3	ENGL1025		
Total			**18**			

Year 3 – Semester 2 – January to May						
EDUC3302	Instructional Techniques	PC	3	EDUC2224		
LITR3202	Belizean Literature 2	PC	3	LITR3101		
LITR3252	Adolescent Literature	PC	3	LITR3101		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	SPAN1025		
EDUC3552	Adolescent Psychology	PC	3	PSYC1014		
EDUC4301	Content Area Reading	PC	3	LITR3101		
Total			**18**			
Year 3 – Semester 3 – June to July						
EDUC3453	Classroom Assessment	PC	3	EDUC2224		
EDUC4153	Professionalism in Education	PC	3	PHIL1014		
EDUC3553	Psychology of Learning	PC	3	PSYC1014,EDUC2224		
EDUC4256	Measurement & Evaluation	PC	3		EDUC3453	
Total			**12**			
Year 4 – Semester 1 – August to December						
LITR4651	Creative Writing: Fiction	PC	3	ENGL1035		
EDUC3905	Field Experience	PC	3	EDUC2224		
LITR4701	Literature & the Environment	PC	3	LITR3101		
LITR4351	Caribbean Literature 2	PC	3	LITR3101		
EENG3851	English Methods	PC	3	EDUC2224		
EDUC4151	Advanced TESOL	PC	3	EDUC3302		
Total			**18**			
Year 4 – Semester 2– January to May						
EDUC3101	Social Context of Schooling	PC	3	SOCL1014		
EDUC3454	Instructional Technology	PC	3	EDUC2224		
EDUC4201	Research in Education	PC	3	RSCH2014		
EDUC3252	Introduction to Guidance & Counselling	PC	3	PSYC1014		
LITR4452	Postcolonial Studies	PC	3	LITR3101		
EDUC4855	Pre-Directed Teaching Seminar	PC	3	EDUC3302,EDUC3141		
Total			**18**			
Year 4 – Semester 1 – August to December						
EDUC4995	Internship	PC	9	All Methods Courses		
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**42**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**99**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**6**
Total			**147**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum GPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Mathematics, Physics, and Information Technology Department
Bachelor of Science in Information Technology (BINT)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
CMPS1134	Fundamentals of Computing	GEC	3			
CMPS1131	Principles of Programming I	PC	3			
MATH1151	Algebra	GEC	3	ATLIB/Math Placement		
MATH1201	Trigonometry	SC	3	HS General Math		
ENGL1014	College English I	GEC	3	ATLIB/English Placement		
MGMT1014/ ECON1014	Fundamentals of Management **OR** Introduction to Economics	GEC	3			
Total			**18**			
Year 1 – Semester 2 – January to May						
CMPS1232	Principles of Programming II	PC	3	CMPS1131		
CMPS1211	Hardware Fundamentals	PC	3	CMPS1134		
CMPS1171	Introduction to Databases	PC	3	CMPS1131		
MATH1302	Calculus I	SC	3	MATH1151; MATH1201		
ENGL1025	College English II	GEC	3	ENGL1014		
CRTH1014	Critical Thinking	GEC	3			
Total			**18**			
Year 2 – Semester 1 – August to December						
CMPS2131	Data Structures	PC	3	CMPS1232		
CMPS2111	Systems Analysis	PC	3	CMPS1171		
CMPS2151	Web Development	PC	3	CMPS1232		
MATH2201	Calculus II	SC	3	MATH1302		
CMPS1191	Networking Fundamentals	PC	3	CMPS1211		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1015		
Total			**18**			
Year 2 – Semester 2 – January to May						
CMPS2212	GUI Programming	PC	3	CMPS2131; CMPS2111		
CMPS2232	Object Oriented Systems Development	PC	3	CMPS2131, CMPS2111		
CMPS2242	Systems Programming & Computer Organization	PC	3	CMPS2131		
CMPS2992	Project	PC	3	***See Below (1)**		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
HIST1014	Belizean History	GEC	3			
Total			**18**			

Year 3 – Semester 1 – August to December						
CMPS3111	Programming Languages	PC	3	CMPS2232		
CMPS3141	Human Computer Interface	PC	3	CMPS2232, CMPS2212		
CMPS3151	Telecommunication	PC	3	CMPS1191		
CMPS3171	Network Design	PC	3	CMPS1191		
MATH3251	Calculus III	SC	3	MATH2201		
MATH3151	Linear Algebra	SC	3	MATH2201		
Total			**18**			
Year 3 – Semester 2 – August to December						
CMPS3162	Advanced Databases	PC	3	CMPS1171		
CMPS4131	Software Engineering	PC	3	CMPS2232, CMPS1191		
CMPS3252	Algorithms	PC	3	CMPS2232, MATH3151		
PHIL1014	Ethics	GEC	3			
RSCH2014	Research Methods	GEC	3	ENGL1025		
SPAN2015	Intermediate Spanish Level 3	GEC	3	SPAN1025		
Total			**18**			
Year 4 – Semester 1 – August to December						
CMPS4991	Senior Seminar in Information Technology	PC	3	***See Below (2)**		
CMPS1035	Composing Process	GEC	3	ENGL1025		
	Approved IT Elective 1*	PC	3	* See below		
	Approved IT Elective 2*	PC	3	* See below		
	Approved IT Elective 3*	PC	3	* See below		
	Approved IT Elective 4*	PC	3	* See below		
Total			**18**			
Year 4 – Semester 2 – August to December						
CMPS4992	Professional Practice	PC	12	***See Below (3)**		
Total		**12**				

*Approved Information Technology Electives							
Course No.	**Course Title**	**Cr**	**Pre-Requisite(s)**	**Course No.**	**Course Title**	**Cr**	**Pre-Requisite(s)**
CMPS4232	Systems Administration	3	CMPS2242 & CMPS3171	CMPS4171	Routing & Switching	3	CMPS3171
CMPS4191	Advanced Web Technologies	3	CMPS2151& CMPS2232	CMPS4252	Digital Logic & Design	3	CMPS2242
CMPS4181	Mobile Application Development	3	CMPS3141& CMPS3111	CMPS4251	Computer & Network Security	3	CMPS1191 & CMPS1232
CMPS4221	Special Topics	3	CMPS3252	CMPS4081	Practical Electronics	3	CMPS1211

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**84**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**15**
TOTAL			**138**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional notes for this program:

*(1) CMPS 2992 -Project Pre-requisites: Successful completion of ALL Professional Core and Support Core courses up to Year 2 Semester 1
*(2) Successful completion of at least 100 credits, which includes all PC & SC up to Year 3 Semester 2
*(3) Successful completion of ALL PC & SC up to Year 4 Semester 1

- CMPS1124 and MATH1151 are used to meet Math and computer GEC requirements.
- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Bachelor of Science in Marine Biology (BMAB)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement/ Math ATLIB		
BIOL1151	Cytology	PC	3	HS Biology	BIOL1151L	
BIOL1151L	Cytology Lab	PC	1	HS Biology, HS CHEM /CHEM0016	BIOL1151	
CHEM1015	General Chemistry I	SC	3	HS CHEM or CHEM0016	CHEM1015L	
CHEM1015L	General Chemistry I Lab	SC	1		CHEM1015	
Total			**17**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
HIST1014	Belizean History	GEC	3			
BIOL1332	Reproduction, Growth and Development	PC	3	BIOL1151	BIOL1332L	
BIOL1332L	Reproduction, Growth and Development Lab	PC	1	BIOL1151L	BIOL1332	
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry II Lab	SC	1	CHEM1015L	CHEM1025	
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
Total			**20**			
Year 2 – Semester 1 – August to December						
PHIL1014	Ethics	GEC	3			
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
BIOL2151	Plant Physiology	PC	3	BIOL1151	BIOL2401L	
BIOL2351	Genetics and Evolution	PC	3	BIOL1151	BIOL2401L	
BIOL2401L	Plant Physiology and Genetics & Evolution Lab	PC	1		BIOL2151, BIOL2351	
MATH1045	Pre-Calculus	SC	3			
MATH2011	Biostatistics I	SC	3			
Total			**19**			

Year 2 – Semester 2 – January to May						
PSYC1014/SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
BIOL2352	Animal Physiology	PC	3	BIOL1151	BIOL2552L	
BIOL2402	Ecology	PC	3	BIOL1302	BIOL2502L	
BIOL2552L	Animal Physiology and Ecology Lab	PC	1		BIOL2352, BIOL2402	
CHEM1032	Introduction to Organic and Biochemistry	SC	3	CHEM1015	CHEM1032L	
CHEM1032L	Introduction to Organic and Biochemistry Lab	SC	1	CHEM1015L	CHEM1032	
MBIO2201	Introduction to Marine Ecosystems	PC	3			
MBIO2451	Basic Water Skills	PC	1			
Total			**18**			
Year 2 – Semester 3 – June to July						
MBIO2303	Underwater Research Methods	PC	3	MBIO2451/ Open Water / Advanced Open Water Certificate		
Total			**3**			
Year 3 – Semester 1 – August to December						
MBIO3201	Tropical Marine Invertebrates	PC	3	BIOL2402	MBIO3201L	
MBIO3201L	Tropical Marine Invertebrates Lab	PC	1	BIOL2352	MBIO3201	
MBIO3251	Marine Botany	PC	3	BIOL2151	MBIO3251L	
MBIO3251L	Marine Botany Lab	PC	1	BIOL2401L	MBIO3251	
SCIE4551	Scientific Proposal Writing	SC	3	BIOL1151	BIOL3302L	
MATH3012	Biostatistics II	SC	3	MATH2011		
SCIE3251	Experimental Design & Analysis	PC	3			
Total			**17**			
Year 3 – Semester 2 – January to May						
BIOL3362	Biochemistry & Molecular Biology	PC	3	BIOL2351	BIOL3362L	
BIOL3362L	Biochemistry & Molecular Biology Lab	PC	1	BIOL2401L	BIOL3362	
MBIO3202	Tropical Marine Vertebrates	PC	3	BIOL2402	MBIO3202L	
MBIO3202L	Tropical Marine Vertebrates Lab	PC	1	BIOL2352	MBIO3202	
BIOL3201	Oceanography	PC	3			
MBIO3303	Coral Reef Biology & Ecology	PC	4	MBIO2303		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Placement Test/SPAN1025		
ENGL1035	Composing Process	GEC	3	ENGL1025		
Total			**21**			
Year 4 – Semester 1 – August to December						
MBIO4201	Marine Conservation	PC	3	MBIO3201, MBIO 3202 MBIO3251		

MBIO4251	Mariculture	PC	3			
BIOL4601	Animal Behavior	PC	3	BIOL2402		
BIOL4352	Ecology & Evolution	PC	3	BIOL1151, BIOL 2402 MATH3012	BIOL4352L	
BIOL4352L	Ecology & Evolution Lab	PC	1		BIOL4352, BIOL4501	
NRMP3401	Introduction to GIS	SC	4			
Total			**17**			
Year 4 – Semester 2 – January to May						
BIOL4402	Fisheries Biology	PC	3		BIOL4402L	
BIOL4402L	Fisheries Biology Lab	PC	1		BIOL4402	
MBIO4492	Thesis	PC	6			
Total			**10**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**78**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**28**
Total			**142**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- *Courses are only offered every other year
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **CMPS1014** Introduction to Computers can be challenged
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Mathematics, Physics, and Information Technology Department
Bachelor of Science in Mathematics (BMAT)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisite	Grade
Year 1 - Semester 1 – August to December						
MATH 1151	Algebra	GEC	3	Math Placement/ MATH1014		
MATH 1201	Trigonometry	PC	3	Math Placement/ MATH1014		
ENGL1014	College English I	GEC	3	English Placement / English ATLIB		
CMPS1124	An Introduction to Programming Using Python	GEC	3			
MGMT1014/ ECON1014	Fundamentals of Management **OR** Introduction to Economics	GEC	3			
SOCL1014/ PSYC1014	Introduction to Sociology **OR** Introduction to Psychology	GEC	3			
Total			**18**			
Year 1 - Semester 2 – January to May						
MATH1252	Complex Numbers & Vectors	PC	3	MATH1151		
MATH1302	Calculus I	PC	3	MATH1151, MATH1201		
MATH1212	Mathematical Software	PC	3			
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CMPS2122	Programming II	SC	3	CMPS1124		
Total			**18**			
Year 2 - Semester 1 – August to December						
MATH2201	Calculus II	PC	3	MATH 302		
MATH2251	Introduction To Discrete Math	PC	3	MATH1302		
MATH2151	Statistics I	PC	3	MATH1151		
ENGL1035	Composing Process	GEC	3	ENGL1025		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement /SPAN1015		
PHIL1014	Ethics	GEC	3			
Total			**18**			
Year 2 - Semester 2 – January to May						
MATH2352	Statistics II	PC	3	MATH2151		
MATH2302	Math Modeling	PC	3	MATH2201		

MATH2402	Mechanics	PC	3	MATH1252, MATH2201		
STAT2151	Introduction to Statistical Software	PC	3	MATH2151		
RSCH2014	Research Methods	GEC	3			
HIS1014	Belizean History	GEC	3			
Total			**18**			
Year 3 - Semester 1 – August to December						
ENGL3155	Technical Writing	SC	3	ENGL1025		
MATH3151	Linear Algebra	PC	3	MATH2251	MATH3201	
MATH3201	Fundamentals Concepts of Math	PC	3	MATH2251	MATH2251**	
MATH3251	Calculus III	PC	3	MATH2201		
***	Elective	EL	3			
***	Elective	EL	3			
Total			**18**			
Year 3 - Semester 2 – January to May						
MATH3302	Probability & Statistics I	PC	4	MATH2151, MATH 3151, MATH3251		
MATH4201	Ordinary Differential Equations	PC	4	MATH3151, MATH3251		
MATH3402	Real Analysis I	PC	3	MATH3201		
MATH3362	Calculus IV	PC	3	MATH3251		
MATH3742	Matrix Analysis	PC	3	MATH2251		
Total			**17**			
Year 4 - Semester 1 – August to December						
MATH4151	Probability & Statistics I	PC	3	MATH3302, MATH2352		
MATH4401	Partial Differential Equations	PC	3	MATH4201		
MATH4251	Real Analysis II	PC	3	MATH3402		
MATH4301	Complex Analysis	PC	3	MATH1252, MATH3402		
***	Elective	EL	3			
SPAN2015	Intermediate Spanish Level 3	GEC	3	SPAN1025		
Total			**18**			
Year 4 - Semester 2 – January to May						
MATH4352	Numerical Analysis	PC	4	CMPS2122, MATH 4201, MATH3402, MATH3151		
MATH4402	Abstract Algebra	PC	3	MATH3402		
MATH4452	Topology	PC	3	MATH4251		

MATH4502	Special Topics	PC	3	Senior Standing		
***	Elective	EL	3			
Total			**16**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**84**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**6**
EL	Elective	Courses outside a student's core curriculum which can help to broaden their knowledge, skills, and perspectives.	**12**
TOTAL			**141**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course,** which provides complementary knowledge or skills for the paired course.	

Additional Notes for the Program:

- **General Education Core** courses are offered every semester, including Summer.
- Nine (9) Elective credits need to be 3000 level or higher.
- MATH2251 Discrete Math can be taken as a co-requisite for transfer students.
- MATH3042 and MATH3025 are no longer accepted as elective courses for BMAT students.
- ***** Natural Science Options include: BIOL1015, BIOL1025, CHEM1015, PHYS1015, NRMP1014, ENVR1014, MRST1014 or any other relevant natural science course for 3 cr.
- Students must complete 125 credits to achieve senior standing.
- **Graduation requirement:** Successfully complete all courses in program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.
- CMPS1124 and MATH1151 are used to meet Math and Computer GC requirements

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS (FEA)
Education Department
Bachelor Degree in Mathematics Education (BMAE)
Program Sequence 2025

PREREQUISITES (72 CREDITS – from any feeder institution)

SPECIAL COMPETENCIES (12 CREDITS)

Course ID	Course Name	Cr		Grade
CRTH1014	Critical Thinking	3	GEC	
HIST1014	Introduction to Belizean History	3	GEC	
PHIL1014	Ethics	3	GEC	

MATHS & NATURAL SCIENCES (9 CREDITS)

Course ID	Course Name	Cr		Grade
MATH1151	Algebra	3	GEC	
CMPS1124	Introduction to Programming Using Python	3	GEC	
CMPS2122	Programming II	3	GEC	

SOCIAL SCIENCES (9 CREDITS)

Course ID	Course Name	Cr		Grade
PSYC1014	Introduction to Psychology	3	GEC	
SOCL1014	Introduction to Sociology	3	GEC	
MGMT1014	Fundamentals of Management	3	GEC	
ENGL1014	College English I	3	GEC	

HUMANITIES (9 CREDITS)

Course ID	Course Name	Cr		Grade
ENGL1025	College English II	3	GC	
RSCH2014	Research Methods	3	GC	
SPAN1025	Level II Lower-Intermediate Spanish	3	GC	

PROFESSIONAL CORE 39 CREDITS)

Course ID	Course Name	Cr		Grade
MATH1201	Trigonometry	3	SC	
MATH1302	Calculus I	3	SC	
MATH2201	Calculus II	3	SC	
MATH1252	Complex Numbers & Vectors	3	SC	
MATH2151	Statistics I	3	SC	
MATH2302	Statistics II	3	SC	
EDUC2224	Teaching Methods	3	SC	

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
EDUC3141	Introduction to Curriculum Development	PC	3	EDUC2224		
EDUC3101	Social Context of Schooling	PC	3	SOCL1014		
EDUC3451	Philosophy of Education	PC	3	ENGL1025		
MATH3151	Linear Algebra	PC	3			
MATH3201	Fundamental Concepts of Math	PC	3			
MATH3251	Calculus 3	PC	3			
Total			**18**			
Year 1 – Semester 2 – January to May						
EDUC3552	Adolescent Psychology	PC	3	PSYC1014		
EDUC3252	Introduction to Guidance Counselling	PC	3	PSYC1014		
EDUC3302	Instructional Techniques	PC	3	EDUC2224, EDUC3141		
MATH4201	Ordinary Differential Equation	PC	3	MATH3151, MATH3251		
MATH3302	Probability and Statistics 1	PC	4			
MATH3402	Real Analysis 1	PC	3			
Total			**19**			
Year 1 – Semester 3 – June to July						
EDUC3453	Classroom Assessment	PC	3	EDUC2224		
EDUC3553	Psychology of Learning	PC	3	PSYC1014, EDUC2224		
EDUC4153	Professionalism in Education	PC	3	EDUC3101, EDUC2222		
EDUC4256	Measurement & Evaluation	PC	3	EDUC3453		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement Test/ SPAN1025		
Total			**15**			
Year 2 – Semester 1 – August to December						
EMAT4851	Math Methods for Secondary Education	PC	3			
MATH4151	Probability and Statistics 2	PC	3			
MATH4251	Real Analysis 2	PC	3			
MATH4401	Partial Differential Equations	PC	3	MATH4201		
MATH4301	Complex Analysis	PC	3			
CRTH1014	Critical Thinking	GEC	3			
Total			**18**			
Year 2 – Semester 2 – January to May						
EDUC4855	Pre-directed Teaching Seminar	PC	3	EDUC3302, EDUC3141		
MATH4352	Numerical Analysis	PC	4	CMPS2122, MATH4201, MATH3402 & MATH3151		
MATH4402	Abstract Algebra	PC	3			
MATH4502	Special Topics	PC	3			
EDUC3905	Field Experience	PC	3	EDUC2224		
EDUC3454	Instructional Technology	PC	3	EDUC2224, CMPS1011		
Total			**19**			

Year 2 – Semester 2 – January to May						
EDUC4995	Internship	PC	9	All Methods Courses		
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**45**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**92**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**21**
Total			**158**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF HEALTH SCIENCES
Allied Health Department
Bachelor of Medical Laboratory Science (BMLS)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1- Semester 1 – August to December						
CRTH1014	Critical Thinking	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
CHEM1015	General Chemistry I	SC	3		CHEM1015L	
CHEM1015L	General Chemistry I Lab	SC	1		CHEM1015	
BIOL1015	General Biology I	SC	3		BIOL1015L	
BIOL1015L	General Biology I Lab	SC	1		BIOL1015	
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
Total			**17**			
Year 1- Semester 2 – January to May						
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry II Lab	SC	1	CHEM1015L	CHEM1025	
BIOL1025	General Biology II	SC	3	BIOL1015	BIOL1025L	
BIOL1025L	General Biology II Lab	SC	1	BIOL1015L	BIOL1025	
BIOL1102	Genetics	SC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
Total			**17**			
Year 1 - Semester 3 – June to July						
MGMT1014	Fundamentals of Management	GEC	3			
HIST1014	Introduction to Belizean History	GEC	3			
Total			**6**			
Year 2 – Semester 1- August to December						
ALHL2012	Human Anatomy and Physiology I	SC	3	BIOL1015,BIOL1015L CHEM1015,CHEM1015L		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement Test / SPAN1015		
CHEM1032	Introduction to Organic and Biochemistry	SC	3	CHEM1025		

BIOL3402	General Microbiology	SC	3	BIOL1025	BIOL3402L	
BIOL3402L	General Microbiology Lab	SC	1	BIOL1025L	BIOL3402	
PHIL1014	Ethics	GEC	3			
ENGL3155	Technical Writing	SC	3	ENGL1025		
Total			**19**			
Year 2- Semester 2- January to May						
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
ALHL2021	Human Anatomy and Physiology II	SC	3	ALHL2012		
BIOL1201	Biochemistry	SC	3	CHEM1025, BIOL1025, CHEM1025L,BIOL1025L		
ALHL2905	Biostatistics for Health Professional	SC	3	MATH1014		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement Test / SPAN1025		
BMLS2052	Introduction to Medical Laboratory Science	PC	3	BIOL1025, CHEM1025, BIOL3402	BMLS1102L	
BMLS2052L	Introduction to Medical Laboratory Science	PC	1	BIOL1025L, CHEM1025L	BMLS1102	
Total			**19**			
Year 2 - Semester 3 – June to July						
BMLS3553	Laboratory Management	PC	2	BMLS2052, BMLS2052L		
ALHL3012	Pathology	SC	3	ALHL2021, BMLS2052		
Total			**5**			
Year 3- Semester 1- August to December						
BMLS3051	Clinical Immunology	PC	2	BMLS2052, ALHL2021	BMLS3051L	
BMLS3051L	Clinical Immunology Lab	PC	1	BMLS2052L	BMLS3051	
BMLS3101	Instrumentation in Medical Laboratory Science	PC	2	BMLS2052, ALHL2021	BMLS3101L	
BMLS3101L	Instrumentation in Medical Laboratory Science Lab	PC	1	BMLS2052L	BMLS3101L	
BMLS3151	Urinalysis and Body Fluids	PC	2	ALHL2021; BMLS2052	BMLS3151L	
BMLS3151L	Urinalysis and Body Fluids Lab	PC	1	BMLS2052L	BMLS3151	
BMLS3201	Medical Parasitology	PC	2	ALHL2021, BMLS2052	BMLS3201L	
BMLS3201L	Medical Parasitology Lab	PC	1	BMLS2052L	BMLS3201	
BMLS3251	Histopathology	PC	2	BMLS2052, ALHL2021	BMLS3251L	
BMLS3251	Histopathology Lab	PC	1	BMLS2052L	BMLS3251	
ALHL3904	Research Methods for Health Professionals	SC	3	ALHL2905, ENGL3155		
Total			**18**			

Year 3- Semester 2- January to May						
BMLS3302	Applied Clinical Hematology I	PC	3	**All BMLS courses in Year 2 and Year 3 First Semester**	BMLS3302L	
BMLS3301L	Applied Clinical Hematology Lab	PC	1		BMLS3302	
BMLS3352	Applied Clinical Immunohematology I	PC	2		BMLS3352L	
BMLS3352L	Applied Clinical Immunohematology I Lab	PC	1		BMLS3352	
BMLS3402	Applied Clinical Chemistry I	PC	3		BMLS3402L	
BMLS3204L	Applied Clinical Chemistry I Lab	PC	1		BMLS3402	
BMLS3452	Applied Clinical Microbiology I	PC	3		BMLS3452L	
BMLS3452L	Applied Clinical Microbiology I Lab	PC	2		BMLS3452	
BMLS3502	Molecular Methods	PC	3			
Total			**19**			
Year 3 - Semester 3 – June to July						
BMLS3993	Clinical Internship I	PC	3	**All BMLS courses in Year 2 and Year 3.** Also, must complete all general and support courses.		
Total			**3**			
Year 4- Semester 1- August to December						
BMLS4051	Applied Clinical Hematology II	PC	3	**All Year 3 BMLS courses**		
BMLS4051L	Applied Clinical Hematology II Lab	PC	1			
BMLS4101	Applied Clinical Immunohematology II	PC	2			
BMLS4101L	Applied Clinical immunohematology II Lab	PC	1			
BMLS4151	Applied Clinical Chemistry II	PC	3			
BMLS4151L	Applied Clinical Chemistry II Lab	PC	1			
BMLS4201	Applied Clinical Microbiology II	PC	3			
BMLS4201L	Applied Clinical Microbiology II Lab	PC	2			
BMLS4251	Supervised Clinical Research	PC	3			
Total			**19**			

Year 4- Semester 2- January to May						
BMLS4992	Internship II	PC	8	Must complete all courses; Must have GPA of 2.5 or better for professional core courses.		
Total			**8**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. **Grade needed: C+**	**70**
SC	Support Course	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**47**
Total			**150**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course,** which provides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: achieve a **C+ (2.5) or higher** in all professional core courses, i.e., all courses with the code BMLS. Successfully complete all courses in the program sequence with a minimum CGPA of 2.5 and a Professional Core GPA of 2.5.
- **Community Service**: must complete 60 hours for the entire program
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam**.

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

UNIVERSITY OF BELIZE SCHOOL OF MEDICINE
Bachelor of Medicine Bachelor of Surgery (MBBS)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Time Period	CR	Grade
Year 1- Semester 1 – August to December						
MEDI3000	Orientation	SC	0			
MEDI3001/L	Gross Anatomy I	PC	5			
MEDI3201/L	Medical Biochemistry	PC	5			
MEDI3351/L	Histology	PC	5			
MEDI3101	Embryology	PC	3			
MEDI3161	Introduction to Clinical and Community Medicine I	PC	2			
MEDI3051/L	Physiology I	PC	5			
Total			**25**			
Year 1- Semester 2 – January to May						
MEDI3252/L	Gross Anatomy II	PC	5			
MEDI3262	Medical Genetics	PC	3			
MEDI3002	Medical Bio-Ethics	PC	3			
MEDI3402/L	Human Nutrition	PC	3			
MEDI3162	Clinical and Community Medicine 2	PC	2			
MEDI3052/L	Physiology II	PC	5			
MEDI3021	Medical Sociology	PC	3			
Total			**24**			
Year 2 – Semester 1- August to December						
MEDI4251/L	Gross Anatomy III	PC	5			
MEDI4151/L	Pharmacology I	PC	4			
MEDI4051/L	Pathology & Pathophysiology I	PC	4			
MEDI4021	Clinical and Community Medicine 3	PC	2			
MEDI4261/L	Molecular Medicine	PC	4			
MEDI4161/L	Physiology III	PC	5			
MEDI4201	Epidemiology and Biostatistics	PC	3			
Total			**27**			
Year 2- Semester 2- January to May						
MEDI4062	Psychology and Psychopathology	PC	3			
MEDI4152/L	Pharmacology II	PC	4			
MEDI4052/L	Pathology and Pathophysiology II	PC	4			
MEDI4022	Clinical and Community Medicine 4 (includes Health Management Module)	PC	2			
MEDI4452/L	Immunology and Microbiology	PC	5			

MEDI4162/L	Chemical Pathology and Haematology	PC	5			
MEDI4032	Seminar 1(for Independent Research)	PC	1			
Total			**24**			

Note: A student must pass each course with a minimum of 60% (C).

- **Eligibility for Final Exam Retake:** A student who fails a course with a grade between 50% and 59% is eligible to retake the final examination for those courses.

- **Academic Year Repetition:** Students who, after retaking the final examinations, fail three or more courses will be required to repeat the academic year.

Year 2 - Semester 3- June to July						
MEDI5241	Research Methods and the Evidence Based Approach to Medicine (Independent Research- Proposal)	PC	3			
MEDI5281	Forensic Medicine and Toxicology	PC	3			
MEDI5291	Clinical Skills Lab	PC	3			
September - December						
MEDI5931	Family Medicine	PC	6	6 weeks		
MEDI5941	Patho-Microbiology laboratory clerkship	PC	6	6 weeks		
Total			**21**			
Year 3- Semester 1 - January to June						
MEDI5242	Independent Research (Data Collection/Experiment)	PC	0			
MEDI5881	Internal Medicine I (w/Introduction to Radiology)	PC	12	12 weeks		
MEDI5992	General Surgery I (w/Introduction to Radiology)	PC	12	12 weeks		
Total			**24**	**24 weeks**		
A student must pass all courses and clinical rotations for the academic year in order to be promoted to year 4.						
Year 4 – June to July						
MEDI5242	Independent Research (Data Collection/Experiment, defense)	PC	3			
MEDI6991	Obstetrics and Gynecology I	PC	12	12 weeks		
MEDI6931	Orthopedics	PC	6	6 weeks		
MEDI6941	Accident & Emergency*	PC	6	6 weeks		
MEDI6951	Otolaryngology (ENT)*	PC	6	6 weeks		
MEDI6041	Pediatrics (w/ emphasis on pediatric radiology)	PC	12	12 weeks		
MEDI6051	Anaesthesia**	PC	4	4 weeks		
MEDI6061	Critical Care **	PC	4	4 weeks		
MEDI6081	Opthalmology**	PC	8	8 weeks		
MEDI6071	Psychiatry***	PC	5	5 weeks		
MEDI6091	Dermatology***	PC	5	5 weeks		
Total			**71**	**68 weeks**		
***MEDI 6941 and MEDI 6951 will run concurrently for 6 weeks.**						

**** MEDI 6081 will run concurrently with MEDI 6051 and MEDI 6061 for 8 weeks** ***** MEDI 6091 will run concurrently with MEDI 6071 for 5 weeks** **Note: At the end of year 4 students will present their independent research paper.** **-A student must pass Independent research defense and all clinical rotations for the academic year in order to be promoted to year 5.**						
Year 5- June to July						
MEDI7011	Medicine II	PC	12	12 weeks		
MEDI7021	Surgery II	PC	12	12 weeks		
MEDI7012	Obstetrics and Gynecology II	PC	12	12 weeks		
MEDI7072	Community Health/Elective	PC	12	12 (6/6) weeks		
Total			**48**	**48 weeks**		
Note: At the end of year 5 students must take the final MBBS Exam.						

CODE	Course Type	Definition	Credits
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. **Grade needed: C with overall PC GPA of 2.00**	**264**
Total			**264**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course,** which provides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **Graduation Requirements**: Successfully complete all courses in program with a minimum grade of C and pass the MBBS exam with a minimum score of 60%.

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Science Department
Bachelor of Science in Natural Resources Management (BNRM)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ENGL1014	College English I	GEC	3	English Placement /English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement /Math ATLIB		
BIOL1015	General Biology I	SC	3			
BIOL1015L	General Biology I Lab	SC	1			
CHEM1015	General Chemistry I	SC	3			
CHEM1015L	General Chemistry I Lab	SC	1			
NRMP1151	Fundamentals for Environmental Managers	PC	3			
Total			**17**			
Year 1 – Semester 2 – January to May						
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
BIOL 1025	General Biology II	SC	3	BIOL1015	BIOL1025L	
BIOL 1025L	General Biology Lab II	SC	1		BIOL1025	
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry Lab II	SC	1		CHEM1025	
Total			**17**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	GEC	3	ENGL1025		
ECON1014/ MGMT1014	Introduction to Economics **OR** Fundamentals of Management	GEC	3			
Total			**6**			
Year 2 – Semester 1 – August to December						
CMPS1014	Introduction to Computer Studies	GEC	3			
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement Test / SPAN1015		
NRMP 2201	Introduction to Marine Ecology	PC	3	NRMP 1151		
NRMP 2251	Introduction to Recreation	PC	3	NRMP 1151		
NRMP 2301	Introduction to Geology	PC	3	NRMP1151/ ENVR1162		
NRMP 2351	Waste Management	PC	3	NRMP 1151		
Total			**18**			

Year 2 – Semester 2 – January to May						
PHIL1014	Ethics	GEC	3			
HIST1014	Belizean History	GEC	3			
NRMP 2402	Protected Areas Management	PC	3	NRMP 2251	NRMP2452	
NRMP 2452	Terrestrial Management Issues	PC	3	NRMP1151, BIOL1025	NRMP2402	
NRMP 2502	Environmental Assessment	PC	3	NRMP 2201		
NRMP 2552	Hospitality and Tourism	PC	3	NRMP 2251		
Total			**18**			
Year 3 – Semester 1 – August to December						
NRMP3151	Professional Skills for Environmental Managers	PC	3	NRMP1151		
NRMP3401	Introduction to GIS	PC	4	NRMP2502, CMPS1014		
NRMP3351	Environmental Law and Policy	PC	3	NRMP1151, PHIL1014		
MATH2011	Biostatistics 1	SC	3			
ENGL3155	Technical Writing	SC	3	ENGL1025		
RSCH2014	Research Methods	GEC	3			
Total			**19**			
Year 3 – Semester 2 – January to May						
MATH3012	Biostatistics II	SC	3	MATH2011		
NRMP3302	Project Management	PC	3	NRMP3151 MGMT1014	MATH3012	
CHEM2302	Industrial & Environmental Chemistry	SC	3	CHEM1025		
NRMP3202	Environmental Seminar	PC	1	NRMP1151		
NRMP3252	Watershed Ecology and Management	PC	3	NRMP2351, NRMP2452, NRMP 2301		
NRMP3452	Independent Thesis Proposal	PC	3	NRMP3151, NRMP3401, ENGL3155, MATH2011	MATH3012	
Total			**16**			
Year 3 – Semester 3 – June to July						
NRMP4153	Field Methods and Assessment	PC	4	NRMP3401, MATH3012		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	SPAN1025		
Total			**7**			
Year 4 – Semester 1 – August to December						
NRMP4251	Environmental Economics	PC	3	ECON1014		
NRMP4301	Environmental Microbiology	PC	3	BIOL1025		
NRMP4301L	Environmental Microbiology Lab	PC	1	BIOL1025L		
NRMP4351	Environmental Impact Assessment	PC	3	NRMP2502 NRMP4153		
NRMP4201	Introduction to Meteorology	PC	3	MATH3012, NRMP1151		

NRMP4993	**NRM Internship	PC	6	NRMP3151, NRMP3401, MATH3012		
Total			**13/19**			
Year 4 – Semester 2 – January to May						
NRMP4502	Fisheries and Aquaculture Management	PC	4	NRMP4153, NRMP4351, NRMP3351		
NRMP4402	Tropical Forest Ecology& Management	PC	4	NRMP4153, NRMP4351, NRMP3351		
NRMP4552	Integrated Coastal Zone Management and Policy	PC	3	NRMP4153, NRMP4351, NRMP3351		
NRMP4452	Wildlife Management	PC	3	NRMP4153, NRMP4351, NRMP3351		
NRMP4942	**Independent Thesis Project	PC	6	NRMP3452		
Total			**14/20**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**33**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**27**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**16**
Total			**76**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **CMPS1014** Introduction to Computers can be challenged
- **** Students do either Independent Thesis Project or Internship and it can be done in either Year 4 semester 1 or 2**
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF HEALTH SCIENCES
Department of Nursing
Bachelor of Science in Nursing (BNUR)
Program Sequence 2025

Course Code	Course Name	Type	Credit	Pre-requisites	Co-requisites	Grade
Year 1 - Semester I - August to December						
BIOL1015	General Biology I	SC	3		BIOL1015L	
BIOL1015L	General Biology I Lab	SC	1		BIOL1015	
CHEM1015	General Chemistry I	SC	3		CHEM1015L	
CHEM1015L	General Chemistry Lab	SC	1		CHEM1015	
CMPS1014	Introduction to Computer Studies	GEC	3			
CRTH1014	Critical Thinking	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
Total			**20**			
Year 1 – Semester 2 – January to May						
ALHL2012	Human Anatomy & Physiology I	SC	3	BIOL1015, BIOL1015L, CHEM1015,CHEM1015L		
CHEM1032	Organic Chemistry & Biochemistry	SC	3	CHEM1015, CHEM1015L	CHEM1032L	
CHEM1032L	Organic Chemistry & Biochemistry Lab	SC	1	CHEM1015, CHEM1015L	CHEM1032	
ENGL1025	College English II	GEC	3	ENGL1014		
PHIL1014	Ethics	GEC	3			
PSYC1014	Introduction to Psychology	GEC	3			
SOCL1014	Introduction to Sociology	GEC	3			
Total			**19**			
Year 2 – Semester 1 – August to December						
ALHL2021	Human Anatomy & Physiology II	SC	3	ALHL 2012		
BIOL3402	General Microbiology	SC	3	BIOL1015, BIOL1015L	BIOL3402L	
BIOL3402L	General Microbiology Lab	SC	1	BIOL1015, BIOL1015L	BIOL3402	
HIST1014	Introduction to Belizean History	GEC	3			
NURS2051	Nursing Concepts	PC	3	All 1st year courses	NURS2051L	
NURS2051L	Nursing Concepts Lab	PC	1	All 1st year courses	NURS2051	
MGMT1014	Fundamentals of Management	GEC	3			
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1025		
Total			**20**			

Year 2 – Semester 2 – January to May						
NURS2102	Pharmacotherapeutics	PC	3	ALHL2021, MATH1014		
NURS2152	Current Issues in Nursing	PC	4	NURS2051, NURS2051L		
NURS2202	Physical Assessment	PC	3	ALHL2021, NURS2051, NURS2051L	NURS2202L	
NURS2202L	Physical Assessment Lab	PC	1	ALHL2021, NURS2051, NURS2051L	NURS2202	
NUTR2055	Food, Nutrition and Health	SC	3	CHEM1032,CHEM1032L		
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**17**			
Student must successfully complete all year 2 courses before commencing year 3 courses.						
Year 3 – Semester 1 – August to December						
NURS3051	Nursing Care of Infants and Children	PC	5	All 2nd year courses	NURS3051L	
NURS3051L	Nursing Care of Infants and Children Lab	PC	1	All 2nd year courses	NURS3051	
NURS3101	Care of the Adult Population	PC	5	All 2nd year courses	NURS3101L	
NURS3101L	Care of the Adult Population	PC	1	All 2nd year courses	NURS3101	
SWRK4101	Family Violence	SC	3	All 2nd year courses		
Total			**15**			
Year 3 – Semester 2 – January to May						
NURS3051P	Nursing Care of Infants & Children Practicum	PC	7	NURS3051, NURS3051L		
NURS3101P	Care of the Adult Population Practicum	PC	7	NURS3101, NURS3101L		
Total			**14**			
Student must successfully complete all year 3 courses before commencing year 4 courses.						
Year 4 – Semester 1 – August to December						
NURS4051	Reproductive Health Care	PC	**5**		NURS4051L, NURS4051P	
NURS4051L	Reproductive Health Care Lab	PC	**1**		NURS4051, NURS4051P	
NURS4051P	Reproductive Health Care Practicum	PC	**3**		NURS4051L, NURS4051P	
NURS4101	Community Health Nursing	PC	**6**		NURS4101P	
NURS4101P	Community Health Nursing Practicum	PC	**3**		NURS4101	
Total			**18**			
Year 4 – Semester 2 – January to May						
NURS4202	Nursing Leadership & Management	PC	**6**	All 4th year semester I courses	NURS4202P	
NURS4202P	Nursing Leadership & Management Practicum	PC	**3**	All 4th year semester I courses	NURS4202	
NURS4152	Promoting Mental Wellness	PC	**6**	All 3rd year courses, NURS4101, NURS4101P	NURS4152P	
NURS4152P	Promoting Mental Wellness Practicum	PC	**3**	All 3rd year courses, NURS4101, NURS4101P	NURS4152	
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**36**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. **Grade needed: C+**	**77**
SC	Support Course	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**28**
Total			**141**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course,** which provides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: achieve a **C+ (2.5) or higher** in all professional core courses, i.e., all courses with the code BNUR. Successfully complete all courses in the program sequence with a minimum CGPA of 2.5 and a Professional Core GPA of 2.5.
- **Community Service**: must complete 60 hours for the entire program
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF HEALTH SCIENCES
Allied Health Department
Bachelor of Pharmacy (BPHA)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 -Semester 1- August to December						
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
CHEM1015	General Chemistry I	SC	3		CHEM1015L	
CHEM1015L	General Chemistry I Lab	SC	1		CHEM1015	
BIOL1015	General Biology I	SC	3		BIOL1015L	
BIOL1015L	General Biology I Lab	SC	1		BIOL1015	
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
CRTH1014	Critical Thinking	GEC	3			
Total			**17**			
Year 1- Semester 2- January to May						
ENGL1025	College English II	GEC	3	ENGL1014		
CHEM1025	General Chemistry II	SC	3	CHEM1015	CHEM1025L	
CHEM1025L	General Chemistry II Lab	SC	1	CHEM1015L	CHEM1025	
BIOL1025	General Biology II	SC	3	BIOL1015	BIOL1025L	
BIOL1025L	General Biology II Lab	SC	1	BIOL1015L	BIOL1025	
PHIL1014	Ethics	GEC	3			
HIST1014	Introduction to Belizean History	GEC	3			
Total			**17**			
Year 2 -Semester 1- August to December						
ALHL2012	Human Anatomy and Physiology I	SC	3	BIOL1015, BIOL1015L, CHEM1015,CHEM1015L		
MATH1045	Pre-Calculus	SC	3	MATH1014		
SPAN1025	Level 2 Lower Intermediate Spanish	GEC	3	Spanish Placement Test / SPAN1015		
BIOL3402	General Microbiology	SC	3	BIOL1025	BIOL3402L	
BIOL3402L	General Microbiology Lab	SC	1	BIOL1025L	BIOL3402	
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	**3**			
Total			**16**			
Year 2- Semester 2- January to May						
ALHL2021	Human Anatomy and Physiology II	SC	3	ALHL2012		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement Test / SPAN1025		

ALHL1012 **OR** ALHL2904	Health Education & Primary Health Care **OR** Special Topics Health Education	SC	2/3			
ENGL3155	Technical Writing	SC	3	ENGL1025		
CHEM1032	Introduction to Organic and Biochemistry	SC	3			
MGMT1014	Fundamentals of Management	GEC	3			
Total			**18**			
Year 3- Semester 1- August to December						
BPHA3051	Introduction to Pharmaceutical Science	PC	3	ALHL2021; BIOL1025; CHEM1025	BPHA3101	
BPHA3101	Pharmacy Calculations	PC	3	MATH1045	BPHA3051	
BPHA3151	Pharmaceutical Microbiology	PC	3	BIOL1025		
ALHL3012	Pathology of Human Diseases	SC	3	ALHL2021		
ALHL2905	Biostatistics for Health Professionals	SC	3	MATH1014		
BIOL1201	Biochemistry	SC	3			
Total			**18**			
Year 3- Semester 2- January to May						
BPHA3202	Pharmacology 1	PC	3	BPHA3051	BPHA3252	
BPHA3252	Pharmaceutics	PC	3	BPHA3101; MATH1045	BPHA3202	
BPHA3302	Pharmacognosy	PC	3	CHEM1032; BPHA3151		
BPHA3352	Pharmaceutical Chemistry	PC	3	CHEM1025; CHEM1032; BIOL1201	BPHA3302	
BPHA4201	Pharmacy Law and Ethics	PC	2	PHIL1014	BPHA3202	
ALHL3904	Research Methods for Health Professionals	SC	3	ALHL2905, ENGL3155		
Total			**17**			
Year 4- Semester 1- August to December						
BPHA4051	Therapeutics I	PC	3	BPHA3202; ALHL3012		
BPHA4101	Pharmacology II	PC	3	BPHA3202		
BPHA4151	Dispensing I	PC	2	BPHA3101	BPHA4151L	
BPHA4151L	Dispensing I Lab	PC	1		BPHA4151	
BPHA4251	Pharmacokinetics	PC	3	BPHA3202; PHA3251; MATH1045		
BPHA4301	Patient Counseling and Physical Assessment	PC	3			
BPHA4001	Supervised Clinical Research	PC	3	ALHL3904		
Total			**18**			
Year 4- Semester 2- January to May						
BPHA4352	Therapeutics II	PC	3	BPHA4051; BPHA4101		
BPHA4452	Pharmacology III	PC	3	BPHA4101; BPHA4051		
BPHA4502	Dispensing II	PC	2	BPHA4151; BPHA3302	BPHA4502L	
BPHA4502L	Dispensing II Lab	PC	1	BPHA4151L	BPHA4502	

BPHA4402	Pharmacy Management	PC	3	BPHA4151		
BPHA4552	Toxicology	PC	2	BPHA4101; BPHA3302		
BPHA4602	Pharmaceutical Analysis and Quality Control	PC	2	BPHA3352; BPHA3101; BPHA4151		
BPHA4652 or BPHA4702 or BPHA4752 or BPHA4802	Veterinary Pharmacy; Nutrition in Pharmacy; Sterile Technology; Drug Regulatory Affairs	PC	2	BPHA 4151 BPHA4051; BPHA3302 BPHA3252; BPHA3101 BPHA4051; BPHA4301		
Total			**18**			
Year 4- Semester 3- June to July						
BPHA4803	Therapeutics Rounds[1]	PC	2	All year 1, 2, 3 & 4 courses		
Total			**2**			
Year 5- Semester 1- August to December						
BPHA4851	Supervised Internship 1[2]	PC	8	All previous courses		
Total			**8**			
Year 5- Semester 2- January to may						
BPHA4902	Supervised Internship II	PC	8			
BPHA4952	Board Review	PC	2			
Total			**10**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**30**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. **Grade needed: C+**	**79**
SC	Support Course	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**50**
Total			**159**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student must take at the same time as another course, which provides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: achieve a **C+ (2.5) or higher** in all professional core courses, i.e., all courses with the code BPHA. Successfully complete all courses in the program sequence with a minimum CGPA of 2.5 and a Professional Core GPA of 2.5.
- **Community Service**: must complete 60 hours for the entire program
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam**.

[1] Pharmacy students must successfully complete all Year 1, 2, 3 and 4 courses to be eligible for Therapeutics Rounds

[2] Pharmacy students must successfully complete Therapeutics Rounds to be eligible for the Supervised Internship. Credit hours are calculated using the recommended standard used in the Caribbean to calculate practice/ internship hours: 80 clock hours = 1crhr

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS
Education Department
Bachelor of Science in Primary Education (BPRE)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
EDUC1051	Introduction to Education	PC	3			
EMAT1101	College Math for Primary Teachers I	PC	3			
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
PSYC1014	Introduction to Psychology	GEC	3			
CRTH1014	Critical Thinking	GEC	3			
Total			**18**			
Year 1 – Semester 2 – January to May						
EMAT1152	College Math for Primary Teachers II	PC	3	EMAT1101		
LING1152	Fundamentals of Linguistics	SC	3	ENGL1014		
EDUC1402	Teaching Methods for Primary Curriculum	PC	4			
EDUC1252	Nature of the Learner	PC	4	PSYC1014		
ENGL1025	College English II	GEC	3	ENGL1014		
MGMT1014	Fundamentals of Management	GEC	3			
Total			**20**			
Year 1 – Semester 3 – June to July						
EART2153/ EMUS2153	Art Education **OR** Music Education	PC	3	EDUC1402		
EPHY2153	Physical Education for the Primary Grades	PC	3	EDUC1402	ESCI2102	
ESCI2102	Health & Family Life Education	SC	3	EDUC1402, EDUC1252	EPHY2153	
PHIL1014	Ethics	GEC	3			
Total			**12**			
Year 2 – Semester 1 – August to December						
EMAT2151	Math Concepts & Methods for the Primary Grades 1	PC	4	EMAT1101, 1152, EDUC1402		
EDUC2151	Managing the Regular & Multi-grade Classroom	PC	3	EDUC1402		
EENG2151	Language Methods for Primary School Teachers 1	PC	3	LING1152, EDUC1402		
HIST1014	Introduction to Belizean History	GEC	3			
EDUC2501	Teaching Practicum 1	PC	1	EDUC1402, 1051, 1252	EDUC2151	

SPAN2015	Level 3 Intermediate Spanish [1]	GEC	3	Spanish Placement Test / SPAN1015, SPAN1025		
ESCI1151	Science for Primary School Teachers	PC	3			
Total			**20**			
Year 2 – Semester 2 – January to May						
ESPN2151	Spanish Methods for the Primary Grades	PC	3	SPAN2015, EDUC1402		
EENG2202	Language Methods for Primary School Teachers 2	PC	3	EENG2151, LING1152, EDUC1402	EENG2151	
ESCI2152	Science Concepts & Methods for Primary School Teachers	PC	3	ESCI1151, EDUC1402		
ESOC2152	Social Concepts & Methods for Primary School Teachers	PC	3	EDUC1402		
RSCH2014	Research Methods	GEC	3	ENGL1025		
EDUC2552	Teaching Practicum 2	PC	2	EDUC2501, EDUC1402		
Total			**17**			
Year 3 – Semester 1 – August to December						
EDUC2995	Internship for Primary School Teachers	PC	9	All Courses		
Total			**9**			
Year 4 – Semester 1 – August to December						
SPED3111	Introduction to Special Education	SC	3	PSYC1014		
ENGL3301	Reading Strategies for Multi-lingual Classrooms	SC	3	LING1152		
EDUC3451	Philosophy of Education	PC	3	PHIL1014		
EDUC3101	Social Context of Schooling	PC	3	EDUC1051		
EDUC3231	History & Development of Education in Belize	PC	3	ENGL1014, HIST1014		
ENGL3105	Language and Communication	SC	3			
Total			**18**			
Year 4 – Semester 2 – January to May						
EDUC3252	Introduction to Guidance & Counseling	PC	3	PSYC1014		
EDUC3302	Instructional Techniques	PC	3	EDUC1402		
ENGL3312	Children's Literature	SC	3	ENGL1025		
EMAT3352	Math Concepts & Methods for the Primary Grades II	PC	3	EMAT2151		
EDUC3454	Instructional Technology	SC	3	CMPS1014		
Total			**15**			
Year 4 – Semester 3 – June to July						
EDUC4153	Professionalism in Education	PC	3	PHIL1014		
EDUC3103/ EDUC3153	Early Childhood Education **OR** Educational Leadership & Administration	EL	3	ENG1025, **OR** EDUC3101, EDUC3451, EDUC3302		
EDUC3403	Psychology of Learning	PC	3	PSYC1014, EDUC1402, EDUC1252		

EDUC3453	Classroom Assessment	PC	3	EDUC1402		
Total			**12**			
Year 5 – Semester 1 – August to December						
EDUC4151	Advanced TESOL	PC	3	ENGL1025, EENG2202		
EDUC4201	Research in Education	PC	3	RSCH2014		
EDUC4256	Measurement and Evaluation	PC	3	EDUC3453, EDUC3302		
EDUC4855	Pre-directed Teaching Seminar	PC	3	EDUC3302, EDUC1402		
SPED4122	Strategies for Meeting Learning Needs	SC	3	SPED3111		
ENGL3155	Technical Writing	SC	3	ENGL1025		
Total			**18**			
Year 5 – Semester 2 – January to May						
EDUC4995	Internship	PC	9	All courses		
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	30
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	108
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	27
EL	Elective	A course chosen by a student from a set of approved options within an education program that is not part of the core or required curriculum.	3
Total			**168**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which pro**vides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- Graduation Requirements: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES
Bachelor of Science in Public Sector Management (BPSM)
Part- time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
ACTG1014	Principles of Financial Accounting I	PC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MGMT1014	Fundamentals of Management	GEC	3			
Total			**9**			
Year 1 – Semester 2 – January to May						
ACTG1054	Principles of Financial Accounting II	PC	3	ACTG1014		
ENGL1025	College English II	GEC	3	ENGL1014		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ ATLIB Math		
Total			**9**			
Year 1 – Semester 3 – June to July						
NRMP1014	Environmental Conservation & Development	GEC	3			
HIST1014	Introduction to Belizean History	GEC	3			
Total			**6**			
Year 2 – Semester 1 – August to December						
CRTH1014	Critical Thinking	GEC	3			
FNAN2014	Principles of Finance	PC	3	ACTG1054		
BLAW2014	Business Law	SC	3	ENGL1025		
Total			**9**			
Year 2 – Semester 2 – January to May						
MATH2025	Business Statistics I	SC	3	MATH1014		
MGMT2015	Introduction to Entrepreneurship	PC	3	MGMT1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
Total			**9**			
Year 2- Semester 3 – Summer						
SPAN2015	Level 3 Intermediate Spanish **	GEC	3	Spanish Placement Test / SPAN1025		
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**6**			
Year 3 – Semester 1 – August to December						
BCOM2014	Business Communication	SC	3	ENGL1025		
ECON 2015	Principles of Economics	PC	3	MATH1014		
MKTG2015	Principles of Marketing	PC	3	MGMT1014, ENGL1025		
Total			**9**			
Year 3 – Semester 2 – January to May						
CMPS1024	Computer Business Application	SC	3	CMPS1014		
PHIL1014	Ethics	GEC	3			
MGMT2055	Business Ethics	PC	3	MGMT1014, ENGL1025		
Total			**9**			

Year 3 -Semester 3– Summer						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**6**			
Year 4 – Semester 1 – August to December						
PSMG3015	Organizational Behaviour in the Public Sector	PC	3	MGMT1014		
PSMG3011	Introduction to Public Sector Administration and Management	PC	3	MGMT1014		
PSMG3051	Ethics in Politics and Administration	PC	3	MGMT1014		
PSMG3101	Introduction to Politics and Political Institutions	PC	3	MGMT1014		
Total			**12**			
Year 4 – Semester 2 – January to May						
PSMG3402	Seminar in Public Administration	PC	3	PSMG3011, PSMG3051, PSMG3101		
PSMG3252	Public Policy and Analysis	PC	3	PSMG3011		
PSMG3352	Project Management	PC	3	PSMG3011, ENGL1025		
PSMG3012	Management Information Systems in the Public Sector	PC	3	CMPS1024, MGMT1014		
Total			**12**			
Year 4 – Semester 3 – Summer						
PSMG3151	Admin and Constitution Law	PC	3	BLAW2014		
Total			**3**			
Year 5- Semester 1- August to December						
ENGL3155	Technical Writing	SC	3	ENGL1035		
PSMG3202	Trends in New Public Administration and Management	PC	3	PSMG3011, ENGL1025		
PSMG3312/ PSMG3302	Conflict Management **(OR)** Public Sector Marketing	PC	3	PSMG3011, ENGL1025		
Total			**9**			
Year 5- Semester 2- January to May						
PSMG4111/ PSMG4101	Leadership and Change Management **OR** Rural and Urban Planning	PC	3	PSMG3011, ENGL1025		
RSCH4015/ RSCH4015T	Research Methods for the Social Sciences	SC	3	RSCH2014		
PSMG4011	Public Financial Administration and Accounting	PC	3	FNAN2014		
PSMG4152	Quantitative Analyses for Public Administration	PC	3	MATH2025		
Total			**12**			
Year 6– Semester 1 – August to December						
PSMG4151	Human Resource Management and Labor Relations	PC	3	PSMG3011, PSMG3015, ENGL1025		
PSMG4202	Comparative Public Management	PC	3	PSMG3011, PSMG3202, PSMG3015, ENGL1025		
PSMG4155	Business Strategy and Policy in the Public Sector	PC	3	Final semester		
Total			**9**			

Year 6 – Semester 2 – January to May						
PSMG4995/ PSMG4205	Undergraduate Internship **OR** Undergraduate Thesis	PC	12	Final semester with 4 courses remaining		
Total			**12**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**81**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**18**
Total			**144**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- General Education Core courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- ***Students are required to enroll in RSCH 4015 if they plan to do Internship or RSCH4015T if they plan to do Thesis in their final semester.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF HEALTH SCIENCES
Social Work Department
Bachelor of Science in Social Work (BSOW)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
CRTH1014	Critical Thinking	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
SOCL1014	Introduction to Sociology	GEC	3			
PSYC1014	Introduction to Psychology	GEC	3			
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ ATLIB Math		
MGMT1014	Fundamentals of Management	GEC	3			
Total			**18**			
Year 1 – Semester 2 – January to May						
ENGL1025	College English II	GEC	3	ENGL1014		
HIST1014	Introduction to Belizean History	GEC	3			
PHIL1014	Ethics	GEC	3			
SWRK1101	Introduction to Social Work and Community Resources	PC	3	ENGL1014	ENGL1025	
SPAN1025	Level 2 Lower Intermediate Spanish**	GEC	3	Spanish Placement Test / SPAN1015		
CMPS1014	Introduction to Computer Studies	GEC	3			
Total			**18**			
Year 1 – Semester 3 – June to July						
ENGL1035	Composing Process	SC	3	ENGL1025		
RSCH2014	Research Methods	SC	3	ENGL1025		
SPAN2015	Level 3 Intermediate Spanish	GEC	3	Spanish Placement/ SPAN1025		
Total			**9**			
Year 2 – Semester 1 – August to December						
SWRK2101	Human Behavior & Social Environment I	PC	3	SWRK1101 All GECs	SWRK1152,4202, 3351, ALHL2951	
SWRK1152	Theories of Social Work	PC	3	All GECs	SWRK2101,4202, 3351, ALHL2951	
SWRK4202	Introduction to Psychopathology & Mental Health	PC	3	All GECs	SWRK2101,1152, 3351, ALHL2951	
SWRK3351	Multi-cultural Social Work	PC	3	All GECs	SWRK2101,1152, 4202, ALHL2951	

ALHL2951	Sexual and Reproductive Health Care	SC	3	All GECs	SWRK2101,4202, 3351	
MGMT3015	Organizational Behavior	SC	3	MGMT1014		
Total			**18**			
Year 2 – Semester 2 – January to May						
SWRK3101	Human Behavior & Social Environment II	PC	3	*SWRK 2101 First-Year PC Courses Completed	SWRK3301, 2252, 3601, 2304	
SWRK3301	Human Rights & Social Work	PC	3	First-Year PC Courses Completed	SWRK3101, 2252, 3601, 2304	
SWRK2252	Social Work Ethics & Critical Thinking	PC	3	First-Year PC Courses Completed	SWRK3101, 3301, 3601, 2304	
SWRK3601	Substance Misuse & Addiction Treatment	PC	3	First-Year PC Courses Completed	SWRK3101, 3301, 2252, 2304	
SWRK2304	Disaster Preparedness	PC	3	First-Year PC Courses Completed	SWRK3101, 3301, 3601, 2252	
Total			**15**			
Year 3 – Semester 1 – August to December						
SWRK2151	Social Work Practice I (Individuals)	PC	3	SWRK1101, 1152	SWRK2202, 3151, 3401, 3401L, 4101	
SWRK2202	Social Work Practice II (Families)	PC	3	SWRK1101, 1152	SWRK2151, 3151, 3151, 3401, 4101	
SWRK3151	Introduction to Social Policy	PC	3	RSCH2014	SWRK2151, 3151, 3401, 4101	
SWRK3401	Counseling I	PC	3	PSYC1014	SWRK2151, 3151, 3151, 4101, 3401L	
SWRK3401L	Counseling I Lab	PC	1	PSYC1014	SWRK2151, 3151, 3401, 4101	
SWRK4101	Family Violence	PC	3	SWRK1101, 1152	SWRK2151, 3151, 3401, 4101	
Total			**16**			
Year 3 – Semester 2 – January to May						
SWRK3201	Social Work Practice III (Groups)	PC	3	SWRK2151, 2202	SWRK3251	
SWRK3251	Social Work Practice IV (Communities)	PC	3	SWRK2151, 2202	SWRK3201	
SWRK3552	Social Work & the Law	PC	3	SWRK3301	SWRK3251, 3201	
SWRK3452	Counseling II	PC	3	SWRK3401, 3401L	SWRK3452L	
SWRK3452	Counseling II Lab	PC	1	SWRK3401, 3401L	SWRK3452	
Total			**13**			
Year 4 – Semester 1 – August to December						
SWRK2992	Internship 1	PC	6	All Year 3 Courses	SWRK3502	
SWRK3502	Social Work Research	PC	3	All Year 3 Courses	SWRK2992	
Total			**9**			
Year 4 – Semester 2 – January to May						
SWRK3991	Internship II	PC	6	All Year 3 Courses	SWRK4152	
SWRK4152	Social Work Supervision	PC	3	All Year 3 Courses	SWRK3991	
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Courses required by all programs.	33
SC	Support Core	Courses that provide the foundation for the Professional Core courses	15
PC	Professional Core	Courses with a passing grade of 2.5 (C+) and required by all Pharmacy students	77
Total			**125**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: achieve a **C+ (2.5) or higher** in all professional core courses, i.e., all courses with the code SWRK. Successfully complete all courses in the program with a minimum CGPA of 2.5 and a Professional Core GPA of 2.5.
- **Community Service**: must complete 60 hours for the entire program.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025, and SPAN2015, dependent on the results of the placement exam**.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF SCIENCE AND TECHNOLOGY
Mathematics, Physics, and Information Technology Department
Bachelor of Science in Statistics (BSTA)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
MATH1151	Algebra	GEC	3	MATH1014/Math Placement		
MATH1201	Trigonometry	PC	3	HS General Math		
ENGL1014	College English I	GEC	3	English Placement/ English ATLIB		
CMPS1124	An Introduction to Programming Using Python	GEC	3			
ECON1014	Introduction to Economics	GEC	3			
SOCL1014	Introduction to Sociology	GEC	3			
Total			**18**			
Year 1 – Semester 2 – January to May						
STAT1014	Fundamental Principles of Official Statistics	PC	3			
MATH1302	Calculus I	PC	3	MATH1151, MATH1201		
CMPS1171	Introduction to Databases	SC	3	CMPS1131 or CMPS1124		
CRTH1014	Critical Thinking	GEC	3			
ENGL1025	College English II	GEC	3	ENGL1014		
CMPS2122	Programming II	SC	3	CMPS1124		
Total			**18**			
Year 2 – Semester 1 – August to December						
MATH2201	Calculus II	PC	3	MATH1302		
SPAN2015	Intermediate Spanish Level 3	GEC	3	Spanish Placement/ SPAN1015, SPAN1025		
MATH2151/ MATH2011	Statistics I/Biostatistics	PC	3	MATH1151		
ENGL1035	Composing Process	GEC	3	ENGL1025		
NRMP1014	Environmental Conservation & Development	GEC	3			
PHIL1014	Ethics	GEC	3			
Total			**18**			
Year 2 – Semester 2 – January to May						
MATH2352/ MATH3012	Statistics II/ Biostatistics II	PC	3	MATH2251		

MATH2402	Mechanics	PC	3	MATH1252, MATH2201		
STAT2151	Introduction to Statistical Software	PC	3	MATH2151		
RSCH2014	Research Methods	GEC	3			
ENGL2105	Communication Skills	SC	3	ENGL1025		
HIS1014	Introduction to Belizean History	GEC	3			
Total			**18**			
Year 3 – Semester 1 – August to December						
ENGL3155	Technical Writing	SC	3	ENGL1025		
MATH3151	Linear Algebra	PC	3	MATH2251		
STAT3011	Economic Statistics	PC	3	ECON1014/ MATH2352 OR MATH3012		
MATH3251	Calculus III	PC	3	MATH2201		
STAT3021	Social Statistics	PC	3	SOCL1014/ MATH2352 OR MATH3012		
STAT3071	Linear Regression Models	PC	3	MATH2352 OR MATH3012		
Total			**18**			
Year 3 – Semester 2 – January to May						
MATH3302	Probability & Statistics I	PC	4	MATH2151, MATH3151, MATH3251		
STAT3042	Introduction to Econometrics	PC	3	STAT3011		
NRMP3401	Introduction to GIS	SC	3			
STAT3052	Demographic Techniques	PC	3	RSCH2014/ MATH2352 OR MATH3012		
STAT3062	Applied Multivariate Statistics	PC	3	MATH2352 OR MATH3012		
STAT3031	Living Standards Measurement	PC	3	RSCH2014/ MATH2352 OR MATH3012		
Total			**19**			
Year 4 – Semester 1 – August to December						
MATH4151	Probability & Statistics II	PC	3	MATH3302		
STAT4121	Topics in Survey Research	PC	3	MATH3302		
STAT4051	Quantitative Spatial Statistics	PC	3	MATH 2352		
STAT4101	Design & Estimation in Survey Sampling	PC	3	RSCH2014/ MATH2352/ MATH3012		
STAT4041	Time Series Analysis and Modelling	PC	3	MATH1201/ MATH2352/ RCSH2014		
STAT4131	Advance Statistical Software	PC	3	STAT3062		
Total			**18**			
Year 4 – Semester 2 – January to May						
STAT4992	Internship	PC	12	*Senior Standing		
Total			**12**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**85**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**15**
TOTAL			**139**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- **General Education Core** courses are offered every semester, including Summer.
- **Graduation Requirements**: Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam**.**
- **CMPS1124 and MATH1151** are used to meet Math and computer GEC requirements
- ***Senior Standing** – Successful completion of ALL professional core and support core courses.
- **Program sequence revised: July 2025**

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES
Bachelor of Science in Tourism Management (BTOM)
Full -Time Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1 – August to December						
ACTG1014	Principles of Financial Accounting I	PC	3			
NRMP1014	Environmental Conservation & Development	GEC	3			
ENGL1014	College English I	GEC	3	English Placement Test/ ATLIB English		
MATH1014	Intermediate Algebra	GEC	3	Math Placement Test/ATLIB Math		
MGMT1014	Fundamentals of Management	GEC	3			
HIST1014	Introduction to Belizean History	GEC	3			
TOTAL			**18**			
Year 1 – Semester 2 – January to May						
ACTG1054	Principles of Financial Accounting II	PC	3	ACTG1014		
ENGL1025	College English II	GEC	3	ENGL1014		
SPAN1025	Level 3 Intermediate Spanish**	GEC	3	Spanish Placement Test / SPAN1025		
MATH2025	Business Statistics I	SC	3	MATH1014		
CMPS1014	Introduction to Computer Studies	GEC	3			
MGMT2015	Introduction to Entrepreneurship	PC	3	MGMT1014		
Total			**18**			
Year 2 – Semester 1 – August to December						
BCOM2014	Business Communication	SC	3	ENGL1025		
CRTH1014	Critical Thinking	GEC	3			
ECON2015	Principles of Economics	PC	3	MATH1014		
FNAN2014	Principles of Finance	PC	3	ACTG1054		
MKTG2015	Principles of Marketing	PC	3	MGMT1014; ENGL1025		
RSCH2014	Research Methods	GEC	3	ENGL1025		
Total			**18**			
Year 2 – Semester 2 – January to May						
ENGL1035	The Composing Process	GEC	3	ENGL1025		
CMPS1024	Computer Business Application	SC	3	CMPS1014		
MGMT2055	Business Ethics	PC	3	MGMT1014; ENGL1025		
BLAW2014	Business Law	SC	3	ENGL1025		
PHIL1014	Ethics	GEC	3			
PSYC1014/ SOCL1014	Introduction to Psychology **OR** Introduction to Sociology	GEC	3			
Total			**18**			

Year 3 - Semester 1 – August to December						
TOUR3011	Recreational Planning	PC	3	TOUR1014,NRMP1014		
MGMT3015	Organizational Behavior	PC	3	MGMT1014		
TOUR3051	Hospitality Law	PC	3	BLAW2014,TOUR3011		
ENGL2105	Communication Skills	SC	3	ENGL1025		
TOUR3101	Hospitality Managerial Accounting	PC	3	ACTG1014,ACTG1054		
ENGL3155	Technical Writing	SC	3	ENGL1035		
Total			**18**			
Year 3 - Semester 2– January to May						
HOSP3302	Advanced Customer Service	PC	3	MGMT1014,MKTG2052		
MGMT3105	Human Resource Management	PC	3	MGMT1014, MGMT2055,MGMT3015		
CMPS3012	Management Information System	SC	3	CMPS1024,MGMT1014		
TOUR3203	Managing Non-Governmental Organizations	PC	3	TOUR1014		
TOUR3302	Tourism Economics	PC	3	ECON2015,TOUR1014		
TOUR3252	Purchasing for Hospitality	PC	3	TOUR1014		
Total			**18**			
Year 4 - Semester 1– August to December						
TOUR4011	Advance Tourism Marketing	PC	3	TOUR1014,MKTG2015, TOUR2202		
TOUR4052	Destination Planning and Management	PC	3	MGMT1014, TOUR1014		
TOUR4102	Cultural Heritage and Tourism	PC	3	TOUR1014, HIST1014		
MGMT4015	Small Business Management	PC	3	MKTG2015, MGMT3015,FNAN2014		
RSCH4015/ RSCH4015T	Research Methods for Social Sciences	SC	3	RSCH2014		
MGMT4105	Productions and Operations Management	PC	3	MGMT1014,MATH2025		
Total			**18**			
Year 4 - Semester 2– January to May						
HOSP4152	Advance Sustainable Tourism	PC	3	TOUR1014,TOUR2051		
MGMT4155	Business Strategy and Policy	PC	3	Final semester	TOUR4995/ TOUR4205	
TOUR4495/ TOUR4205	Internship **OR** Undergraduate Thesis	PC	12	Final semester with only 4 courses remaining	MGMT4155	
Total			**18**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**39**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses**.	**81**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**24**
Total			**144**

	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- **General Education Core:** courses are offered every semester, including Summer.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum GPA of 2.0 and a Professional Core GPA of 2.5.
- **Students must take a Spanish Placement Exam and may be exempted from SPAN1015, SPAN1025 and SPAN2015, dependent on the results of the placement exam.**
- ***Students are required to enroll in RSCH 4015 if they plan to do Internship or RSCH4015T if they plan to do Thesis in their final semester.

University of Belize

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Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION & ARTS (FEA)
Education Department
Diploma in Education Methodology (DEDM)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
EDUC3451	Philosophy of Education	PC	3	ENGL1025		
EDUC3101	Social Context of Schooling	PC	3	SOCL1014 or EDUC1051		
Total			**6**			
Year 1 – Semester 2 – January to May						
EDUC3141	Introduction to Curriculum Development	PC	3	EDUC2224		
EDUC3352	Classroom Management for Secondary Teachers	PC	3	EDUC2224		
EDUC3751	Reflective Practice 1	PC	3	EDUC2224		
Total			**9**			
Year 1 – Semester 3 – June to July						
EDUC3403	Psychology of Learning	PC	3	PSYC1014, EDUC2224		
EDUC3453	Classroom Assessment	PC	3	EDUC2224		
EDUC3252	Introduction to Guidance and Counseling	PC	3	PSYC1014		
EDUC3552	Adolescent Psychology	PC	3	PSYC1014		
Total			**12**			
Year 2 – Semester 1 – August to December						
EDUC3302	Instructional Techniques	PC	3	EDUC2224,		
EDUC4256	Measurement and Evaluation	PC	3	EDUC3141		
EDUC4153	Professionalism in Education	PC	3	PHIL1014		
EDUC4855	Pre-directed Teaching Seminar	PC	3	EDUC2224, EDUC3141		
Total			**12**			
Year 2 – Semester 2 – January to May						
EDUC5995	Internship Teaching	PC	9			
Total			**9**			

CODE	Course Type	Definition	Credits
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: C	48
Total			**48**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- All students must have completed a Bachelor Degree in any content area of the secondary curriculum and currently employed as a teacher (in-service). This program is not designed for teachers with a Bachelor Degree in Primary Education.
- It is recommended that EDUC2224 be taken Year 1 Semester 1 of the program and CRTH1014 be taken Year 1 Semester 1 or 2.
- **Graduation Requirements:** Successfully complete all courses in the program sequence with a minimum CGPA of 2.0 and a Professional Core GPA of 2.5.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF HEALTH SCIENCES (FHS)
Department of Nursing
Certificate in Midwifery (CMID)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Semester I						
MIDW3101	Introduction to Midwifery	**PC**	3	**Successful completion of an approved Nursing program**		
MIDW3151	Needs of the Client, Significant Other and Family in Prenatal Period	**PC**	5		MIDW3151L	
MIDW3151L	Needs of the Client, Significant Other and Family in Prenatal Period Lab	**PC**	1		MIDW3151	
MIDW3201	Needs of the Client, Significant Other and Family in Intranatal Period	**PC**	3		MIDW3201L	
MIDW3201L	Needs of the Client, Significant Other and Family in Intranatal Period Lab	**PC**	1		MIDW3201	
MIDW3251	Needs of the Client, Significant Other and Family in Postnatal Period	**PC**	2		MIDW3251L	
MIDW3251L	Needs of the Client, Significant Other and Family in Postnatal Period Lab	**PC**	1		MIDW3251	
Total			**16**			
Student must successfully complete all *Semester I* courses before proceeding into *Semester II.*						
Semester 2						
MIDW3302	Needs of the Normal Neonate	**PC**	2		MIDW3302L	
MIDW3302L	Needs of the Normal Neonate Lab	**PC**	1		MIDW3302	
MIDW3352	The Community	**PC**	4	MIDW3101		
MIDW3992P	Supervised Clinical Experience I	**PC**	10	MIDW3302, MIDW3302L, MIDW3352		
Total			**17**			
Student must successfully complete all *Semester II* courses before proceeding into *Semester II.*						
Semester 3						
MIDW3451	Needs of Pregnant Client with Complications	**PC**	6		MIDW33451L	
MIDW3451L	Needs of Pregnant Client with Complications Lab	**PC**	1		MIDW33451	
MIDW3501	Needs of Neonate with Complications	**PC**	3		MIDW3501L	
MIDW3501L	Needs of Neonate with Complications Lab	**PC**	1		MIDW3501	
MIDW3993P	Supervised Clinical Experience II	**PC**	10	MIDW3451, MIDW3451L, MIDW3501, MIDW3501L		
Total			**21**			

CODE	Course Type	Definition	Credits
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C+**	54
Total			**54**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which provides** complementary knowledge or skills for the paired course.	

Graduation Requirements:

- Achieve a **C+ (2.5)** or higher in all professional core (PC) courses.
- Must complete 20 hours of community service for the entire program

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF MANAGEMENT & SOCIAL SCIENCES
Master of Business Administration (MBA)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Pre-Trimester 1 & Trimester 1						
MGMT5000	Leading People in Organizations	RC	0			
MGMT5001	Innovative Practices & Careers	RC	0			
RSCH5000	Business Research Methods	RC	0			
MATH5101	Quantitative Methods & Statistics	PC	3			
ACTG5101	Accounting for Decision Making	PC	3			
MGMT5101	Managing Organizational Behavior	PC	3			
Total			**9**			
Year 1 – Trimester 2						
ECON5152	Global Business & Economics	PC	3			
MGMT5152	Operations & Supply Chain Management	PC	3	MATH5101		
BLAW5102	Business & Administrative Law	PC	3			
THESIS WORKSHOP	Business Research Project/Thesis (Orientation Workshop)	RC	0			
Total			**9**			
Year 1 – Trimester 3						
CMPS5103	Technology & Information Management	PC	3			
MGMT5153	Managing People in Organizations	PC	3			
FNAN5103	Financial Decision Making	PC	3	MATH5101, ACTG5101		
Total			**9**			
Year 2 – Trimester 1						
MKTG6101	Marketing Strategy & Planning	PC	3	ECON5152		
MGMT6101	Project Management	PC	3	MATH5101		
MGMT6151	Entrepreneurship & New Venture Creation	PC	3	ACTG5101		
Total			**9**			
Year 2 – Trimester 2						
MGMT6201	Corporate & Competitive Strategy	PC	3	ALL COURSES		
MGMT6995	Business Research Project/Thesis	PC	6	ALL COURSES		
Total			**9**			

CODE	Course Type	Definition	Credits
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **B**	**45**
RC	Refresher Courses	Courses intended to update or reinforce students' existing knowledge and skills in a particular subject or field.	**0**
Total			**45**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- Business Research Project/Thesis (Orientating Workshop)
- Business Research Project/Thesis (Defense)
- Pre-Trimester Immersion Course -Synchronous Delivery
- Trimester Courses – Synchronous Delivery
- Thesis Workshop and Business Research Project/Thesis include Internship and/or Field Work
- Thesis Advisors will be assigned for MGMT6995

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION AND ARTS (FEA)
Education Department
Master Degree in Educational Leadership (MEDL)
Program Sequence 2025

Course Code	Course Name	Type	Credits	PR	CR	Grade
Year 1 – Semester 1 – August to December						
EDLD5013	Scholarly Writing Seminar	PC	4			
Total			**4**			
Year 1 – Semester 2 – January to May						
EDLD5021	Foundations of Educational Leadership	PC	4			
EDLD5022	Issues and Trends in Belize's Education		4			
Total			**8**			
Year 1 – Semester 3 – June to July						
EDLD5031	Curriculum Leadership	PC	4			
Total			**4**			
Year 2 – Semester 1 – August to December						
EDLD5032	Qualitative Approach to Research	PC	4			
EDLD5041	Leading Educational Change	PC	4			
Total			**8**			
Year 2 – Semester 2 – January to May						
EDLD5051	Quantitative Approach to Education	PC	4			
EDLD5052	Future of Education	PC	4			
Total			**8**			
Year 2 – Semester 3 – June to July						
EDLD5053	Thesis Proposal	PC	4			
Total			**4**			
Year 3 – Semester 1 – August - December						
EDLD5061	Thesis	PC	5			
Total			**5**			

CODE	Course Type	Definition	Credits
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **B**	41
Total			**41**

Additional Notes for this program:

- Graduation Requirements: Successfully complete all courses in the program with a minimum CGPA of 3.00

University of Belize

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Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY: _____

Master of Philosophy
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Year 1 – Semester 1						
ARSH6001	Advanced Theory in Field of Study	PC	4		ARSH6051, ARSH6101	
ARSH6051	Advanced Research Methods in Field of Study	PC	4		ARSH6001, ARSH6101	
ARSH6101	Advanced Scholarly Writing in Field of Study	PC	4		ARSH6001, ARSH6051	
Total			**12**			
Year 1 – Semester 2 & Year 2						
DRSH6995	Dissertation	PC	56	ARSH6001, ARSH6051, ARSH6101		
Total			**56**			

CODE	Course Type	Definition	Credits
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: Pass	68
Total			**68**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	
	Co-requisite	A course that a student **must take at the same time as another course, which pro**vides complementary knowledge or skills for the paired course.	

Additional Notes for this program:

- This program carries Pass/Fail grades only
- Graduation Requirements: Students must successfully complete all components of the program to the standards set out by the University of Belize.

University of Belize

Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF EDUCATION AND ARTS (FEA)
Regional Language Center (RLC)
Certificate in English as a Second Language (CESL)
Program Sequence 2026

Course Code	Course Name	Type	Credits	Pre-requisites	Co-requisites	Grade
Quarter 1 – Level 1 (A1) – January to March						
ESLC0101	Conversation Skills I	PC	2	Placement Test		
ESLG0101	Grammar I	PC	2	Placement Test		
ESLR0101	Reading Skills I	PC	2	Placement Test		
ESLW0101	Writing Skills I	PC	2	Placement Test		
ESLB0101	Belizean Studies I	GEC	1			
LING0303	English Pronunciation I	EL	1			
Total			**10**			
Quarter II – Level 2 (A1+, A2) – March to May						
ESLC0201	Conversation Skills II	PC	2	ESLC0101		
ESLG0201	Grammar Skills II	PC	2	ESLG0101		
ESLR0201	Reading Skills II	PC	2	ESLR0101		
ESLW0201	Writing Skills II	PC	2	ESLW0101		
ESLB0201	Belizean Studies II	GEC	1	ESLB0101		
LING0404	English Pronunciation II	EL	1	LING0303		
Total			**10**			
Quarter III – Level 3 (A2+, B1) – May to July						
ESLC0301	Conversation Skills III	PC	2	ESLC0201		
ESLG0301	Grammar Skills III	PC	2	ESLG0201		
ESLR0301	Reading Skills III	PC	2	ESLR0201		
ESLW0301	Writing Skills III	PC	2	ESLW0201		
ESLB0301	Belizean Studies III	GEC	1	ESLB0201		
ESLE0303	English for Professionals I	EL	1	Completed Level II	Placement test	
TEFL0503	TOEFL Preparation I	EL	1	Completed Level II		
Total			**11**			
Quarter IV – Level 4 (B1+, B2)– August to October						
ESLC0403	Conversation Skills IV	PC	2	ESLC0301		
ESLG0403	Grammar Skills IV	PC	2	ESLG0301		
ESLR0403	Reading Skills IV	PC	2	ESLR0301		
ESLW0403	Writing Skills IV	PC	2	ESLW0301		
ESLB0401	Belizean Studies IV	GEC	1	ESLB0301		
ESLE0404	English for Professional II	EL	1	ESLE0303	Placement test	
TEFL0604	TOEFL Preparation II	EL	1	TEFL0503		
Total			**11**			
Advanced level courses (B2+ and above)						
ESLC0502	Conversation Skill V	PC	2	ESLC0403		
ESLG0502	Grammar Skills V	PC	2	ESLG0403		
ESLR0502	Reading Skills V	PC	2	ESLR0403		
ESLW0502	Writing Skills V	PC	2	ESLW0403		
Total			**8**			
ESLC0603	Conversation skills VI	PC	2	ESLC0502		

ESLG0603	Grammar Skills VI	PC	2	ESLG0502		
ESLR0603	Reading Skills VI	PC	2	ESLR0502		
ESLW0603	Writing Skills VI	PC	2	ESLW0502		
ESLP0903	ESL Internship (Applied English Internship)	PC	4	ESLC0502	**Competency Level B1 & above**	
Total			**12**			
ESLC0704	Conversation Skills VII	PC	2	ESLC0603		
ESLG0704	Grammar Skills VII	PC	2	ESLG0603		
ESLR0704	Reading Skills VII	PC	2	ESLR0603		
ESLW0704	Writing Skills VII	PC	2	ESLW0603		
ESLP0903	ESL Internship (Applied English Internship)	PC	4	ESLC0502	**Competency Level B1 and above**	
Total			**12**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Courses required by all programs.	4
PC	Professional Core	Courses specific to program	32
EL	Elective Courses	Optional Courses	6
PC	Internship (PC)	Only for eligible students	4
	Total		**42**
	Pre-requisite	Courses the student must complete prior to registering in a course	
	Co-requisite	Additional requirements that need to be met prior to registering in a course	

Additional Notes for the CESL Program Sequence

- **Placement Test:**
  All students accepted into the CESL program must take an Institutional English Competency Placement Test before classes begin. Based on the results, students will be placed at the appropriate level.
- **Program Sequence:**
  Once placed in a level, students must follow the courses in the order listed for that level.
- **Challenging a Level:**
  A student may request to challenge (skip) a level based on strong performance in their current courses. This option is only available upon the **recommendation of all lecturers** and must receive final **approval from the Director**.
- **Professional Core Courses:**
  Students must complete all professional core courses required for their level.
- **General Education Core Courses:**
  These courses are offered every quarter and must be completed by all students in the program.
- **Internship Requirement:**
  Students who successfully complete Conversational Skills V (ESLC0504) or higher are required to complete the ESL Internship (ESLP0902). The internship is 60 hours, and it must be completed satisfactorily as part of the graduation requirements.
- **Graduation Requirements:**
  To receive the Certificate in English as a Second Language, students must:
  - Have no incomplete courses.
  - Earn a minimum grade of C+ (2.5) in all courses.
  - Successfully complete the ESL Internship (for students who reached ESLC0504 or higher).
- **Repeating a Course:**
  A student who fails a course may repeat it once, either when it is offered in the regular schedule or as an off-sequence course (following the off-sequence policy).
  - Before repeating, the student must consult with their advisor, the RLC Director, and the course facilitator.
  - If the student cannot repeat the course, they may continue in the program but will not be eligible for the Certificate of Completion.
- **Academic Standing:**
  To remain in good academic standing, students must achieve a grade of C+ or higher in all courses.

University of Belize

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Student Name: _____
Student ID#: _____
Advisor: _____

FACULTY OF HEALTH SCIENCES
Department of Nursing
Certificate in Practical Nursing (CPRN)
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1						
PRAN1101	Applied Biological Sciences	SC	4	HS Biology		
PRAN1151	Applied Behavioral Sciences	SC	4			
PRAN1201	Fundamentals of Nursing I	PC	2			
PRAN1251	Fundamentals of Nursing II	PC	3			
PRAN1251L	Fundamentals of Nursing II Lab	PC	2			
PRAN1301	Medication Administration	PC	2			
Total			**17**			
Students must successfully complete all *Semester 1* courses before proceeding into *Semester II.*						
Year 1 – Semester 2						
PRAN1352	Family Health in Community Settings	PC	3			
PRAN1402	Medical –Surgical Nursing	PC	3			
PRAN1402L	Medical –Surgical Nursing Lab	PC	1			
PRAN1452	Mental Health/Psychiatric Nursing	PC	3			
PRAN1502	Obstetrical Nursing	PC	3			
PRAN1502L	Obstetrical Nursing Lab	PC	1			
PRAN1552	Pediatric Nursing	PC	3			
PRAN1552L	Pediatric Nursing Lab	PC	1			
Total			**18**			
Student must successfully complete all *Semester 2* courses before proceeding into *Summer.*						
Year 1 – Semester 3 – Summer						
PRAN1603	First Aid/Basic Life Support		3			
Total			**3**			
Student must successfully complete *Summer* course before proceeding into *Year 2*						
Year 2 – Semester 1 – August to December						
PRAN1991P	Supervised Practical Experience	PC	16			
Total			**16**			

CODE	Course Type	Definition	Credits
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. **Grade needed**: C+	**43**
SC	Support Core	Supplementary courses that strengthen a student's understanding and performance in their major area of study. Grade Needed: C	**8**
Total			**54**

Additional Notes for this program:

- All professional core (PC) courses must be successfully completed with a grade of C+ (75%) or better. A professional core course which must be repeated should be done at the next offering in the new academic year. Support core (SC) courses must be successfully completed with a grade of C (70%) or better. Only two (2) professional core courses can be repeated during the academic program. Students who fail to meet the minimum requirement for a professional core course after two attempts will be required to withdraw from the program. You are strongly encouraged to utilize consultation sessions for the various courses to discuss important concepts you may have difficulty with.
- **Graduation Requirements:** Successfully complete all courses in the program with a minimum CGPA of 2.5 and a Professional Core GPA of 2.5.
- Must complete 10 hours of community service for the entire program

University of Belize

Education Empowers a Nation

Student Name: _____
Student ID#: _____
Advisor: _____

UNDECLARED MAJOR/TRANSITION PROGRAM
Program Sequence 2025

Course Code	Course Name	Type	Credits	Pre-requisites	CR	Grade
Year 1 – Semester 1 – August to December						
CRTH1014	Critical Thinking	GEC	3			
CMPS1014	Introduction to Computer Studies	GEC	3			
ENGL1014	College English 1	GEC	3	English Placement / English ATLIB		
MATH1014	Intermediate Algebra	GEC	3	Math Placement/ Math ATLIB		
MGMT1014/ ECON1014	Fundamentals of Management **OR** Introduction to Economics	GEC	3			
SPAN1015	Level 1 Beginners Spanish	GEC	3	Spanish Placement		
Total			**18**			
Year 1 – Semester 2 – January to May						
ENGL1025	College English II	GEC	3	ENGL1014		
NRMP1014	Environmental Conservation & Development	GEC	3			
PHIL1014	Ethics	GEC	3			
SPAN1025	Level 2 Lower-Intermediate Spanish	GEC	3	SPAN1015/ Spanish Placement		
HIST1014	Introduction to Belizean History	GEC	3			
	*Professional Core	PC	3			
Total			**18**			
Year 1 – Semester 3 – June to July						
RSCH2014	*Research Methods	GEC	3	ENGL1025		
ENGL1035	*The Composing Process	GEC	3	ENGL1025		
SOCL1014/ PSYC1014	*Introduction to Sociology **OR** Introduction to Psychology	GEC	3			
Total			**9**			

CODE	Course Type	Definition	Credits
GEC	General Education Core	Foundational courses required for all undergraduate students, regardless of major. Grade needed: C	**42**
PC	Professional Core	Courses that provide the essential knowledge and competencies directly related to a field of study. Grade needed: **C with an average of C+ across all Professional Core courses.**	**3**
Total			**45**
	Pre-requisite	A course that must be successfully completed before enrolling in a more advanced course.	

Additional Notes for this program:

- Program Change can be done at the end of Semester 1, but is required at the end of Semester 2, after taking 36 credits.
- *A Professional Core course can also be taken, which will transfer into your program of choice.
- *The Professional Core Course is determined by the respective Faculty.
- Students must take a Spanish Placement Exam and may be exempted from **SPAN1015, SPAN1025 and SPAN2015,** dependent on the results of the placement exam.

APPENDIX

2 UNDERGRADUATE ACADEMIC POLICIES

3 ACADEMIC CALENDAR: 2025-2026

4 STUDENT HANDBOOK

5 ARCHIVED CATALOGS

APPENDIX

6 COURSE DESCRIPTIONS

HOW TO READ A COURSE ID

The university Course ID comprises of 8 or 9 characters, for example ABCD1234E.

1. The first four characters, letters of the alphabet - **ABCD**1234E:
   - are in UPPERCASE;
   - indicate subject area/discipline;
   - and are consistent with universally recognized codes.

2. The next four characters are digits - ABCD**1234**E:
   - The first represents the year the course is being offered - ABCD**1**234E.
     - 1: First Year
     - 2: Second Year
     - 3: Third Year
     - 4: Fourth Year
   - The next two digits represent the number for the course - ABCD1**23**4E.
     - A larger number represents a more advanced course.
     - 01 is given to all General Core Courses.
     - If more than one General Core then continue with 02, 03, etc.
   - The fourth digit represents the semester the course is offered - ABCD123**4**E.
     - 1: first semester
     - 2: second semester
     - 3: summer
     - 4: all semesters
     - 5: first and second semesters
     - 6: first and summer semesters
     - 7: second and summer semesters

3. If there is a ninth character, appearing as the last character, then it is a letter of the alphabet - ABCD1234**E**.
   - It will be in UPPERCASE, usually an L or a P.
   - L indicates it is a laboratory course.
   - P indicates it is a Practicum.

ACAD1102L COMPUTER AIDED DRAFTING I **Credit 2**

The purpose of this course is to deliver an entry-level course in CAD (Computer Aided Drafting). AutoCAD is used as a principle tool in our instruction. Students will spend an entire semester using AutoCAD software as they explore beginning concepts of basic drawing, layout, modifying, and other AutoCAD commands.

Pre-requisite(s): NONE

ACAD2101L COMPUTER AIDED DRAFTING II **Credit 2**

It is a continuous course of ACAD1102L (Computer Aided Drafting I). AutoCAD 2025 software is used as a principle tool in our instruction. Students will spend an entire semester using AutoCAD software as they explore further concepts of AutoCAD commands including 3D modeling.

Pre-requisite(s): ACAD1102L

ACAD2202L COMPUTER AIDED DRAFTING III **Credit 3**

Apply computer aided drafting software (AUTODESK REVIT 2025) to produce three-dimensional (3-D) drafting. The course covers 3D coordinate systems, 3D viewing, solid modelling and editing, surface modelling and editing, 3D-dimensions, material attaching, lighting, and rendering, with attention to AutoCAD commands and projects practicing.

Pre-requisite(s): ACAD2101L

ACAD3102L COMPUTER AIDED DRAFTING III FOR ENGINEERS **Credit 4**

This is a continuous course of CAD256 (Computer Aided Drafting II). Autodesk Revit Architecture is a Building Information Modeling (BIM) software for architects, structural engineers, MEP engineers, designers and contractors. It allows users to design a building and structure and its components in 3D, annotate the model with 2D drafting elements and access building information from the building model's database

Pre-requisite(s): ACAD2101L

ACTG1014 PRINCIPLES OF FINANCIAL ACCOUNTING I **Credit 3**

The aim of this three-credit course is to introduce students to the fundamental concepts and techniques of the basic accounting system as it applies to sole traders, in both merchandising and service industries. The accrual basis of accounting is covered, together with end – of – period adjustments. Through exercises and problems, students will gain an understanding of the accounting cycle; demonstrate proficiency in performing tasks associated with the completion of the accounting cycle, including the preparation of the income statement, statement of owner's equity and balance sheet. Students will also be able to interpret information presented on financial statements in order to make operational and investment related decisions.

Pre-requisite(s): NONE

ACTG1054 PRINCIPLES OF FINANCIAL ACCOUNTING II **Credit 3**

This course builds upon the foundation received from Financial Accounting I (ACTG1014), with a focus on Accounting for specific assets and liabilities of a business.Utilizing the GAAP rules of accounting, students are introduced to accounting as it applies to Partnerships, Limited Liability Company (LLC) and Corporations. The course enables students to gain an understanding of the importance of reporting accurate accounting information that will be beneficial for both internal and external users.

Pre-requisite(s): ACTG1014

ACTG2014 ACCOUNTING SOFTWARE APPLICATIONS **Credit 3**

An introductory course of the QuickBooks Pro Accounting software, including setting up a new company and chart of accounts; recording transactions with customers, vendors, and employees; managing lists; and running and customizing basic financial reports such as Profit and Loss Statements, Balance Sheets and Trial Balance.

Pre-requisite(s): ACTG1054

ACTG3015 PRINCIPLES OF MANAGERIAL ACCOUNTING **Credit 3**

This course introduces students to basic managerial accounting concepts. It provides information needed by man- agers to determine how resources should be obtained and used in any type of business, large or small. These resources include people, money, equipment, technology and real estate. The information generated is geared to satisfying the internal reporting needs of managers. This course will involve the study of cost behavior; cost-volume-profit analysis; manufacturing cost; contribution margin costing; budgeting, profit planning; control measures; decision- making; and financial statement analysis.

Pre-requisite(s): ACTG1054, FNAN2014

ACTG3051 INTERMEDIATE ACCOUNTING I **Credit 3**

This is a three-credit transfer-level course. It comprehensively covers critical accounting principles and procedures relating to financial reporting. Topics emphasized include the accounting treatment for accounts to be used in the preparation of Balance Sheet, Income statement, Comprehensive Income, Cash Flows statements and statement of Shareholders Equityfor reporting under USGAAP and under IFRS.

Pre-requisite(s): ACTG1054

ACTG3102 INTERMEDIATE ACCOUNTING II **Credit 3**

This is a three-credit transfer-level course. This course is the continuation of ACTG3051 Topics include accounting for inventory and fixed and intangible assets; current and long-term liabilities including bonds contingences, corporate capital; analysis of financial statements, accounting changes and error corrections and financial reporting under US GAAP and IFRS.

Pre-requisite(s): ACTG3051

ACTG3151 COST ACCOUNTING I **Credit 3**

This is a three-credit transfer-level course. The major cost accounting systems are thoroughly studied. Topics emphasized include direct cost versus indirect costs, variable versus fixed, CVP Analysis, job costing, activity-based costing, master budget and responsibility accounting, flexible budget and variances, inventory costing and capacity analysis, cost behavior and decision making.

Pre-requisite(s): ACTG1054

ACTG3202 COST ACCOUNTING II **Credit 3**

This is a three-credit transfer-level course. This course is the continuation of ACTG3151. This course comprehensively reviews additional aspects of cost accounting. Key topics include preparation of budgetary information, budgets and budget controls, budget variances, capital budgeting, inventory costing and capacity analysis, inventory management, process and product costing, and utilizing cost concepts, analysis and measurement for decision making purposes.

Pre-requisite(s): ACTG3151

ACTG4011 ADVANCED FINANCIAL ACCOUNTING I **Credit 3**

This is a three-credit transfer-level course. It advances the key practices and underlying generally accepted accounting principles relating to investments in corporate securities, business combinations and

consolidations and reporting controlling interests in financial reports, foreign currency transactions, business reorganizations, and partnerships. Topics emphasized are reporting investments in corporate securities, the consolidation process, outside ownership interest, intercompany asset transactions, intercompany debt transactions, segment and interim reporting, accounting for foreign currency and hedging activities, liquidation and reorganizations and partnerships formation and liquidation.
Pre-requisite(s): ACTG3151, ACTG3202

ACTG4052 ADVANCED FINANCIAL ACCOUNTING II **Credit 3**
This is a three-credit transfer-level course.This course is the continuation of financial accounting issues introduced in ACTG4011. Students will encounter accounting problems in respect of multiple ownership; partnership accounts; foreign currency transactions, reporting and hedging. Other special topics include international standards, legal reorganization, and liquidations, partnerships formation, operation, termination, and liquidation.
Pre-requisite(s): ACTG4011, ACTG4101 & ACTG3102

ACTG4101 NOT-FOR-PROFIT/GOVERNMENT ACCOUNTING **Credit 3**
This is a three-credit transfer-level course.It examines financial and managerial accounting concepts peculiar to the planning and administration of public and quasi-public organizations such as governmental units, institutions, and charitable organizations. It also includes the study of governmental auditing and the theory and practice of accounting for governmental units and not for profit organizations.
Pre-requisite(s): ACTG310

ACTG4151 AUDITING AND INVESTIGATIONS I **Credit 3**
This is a three-credit transfer-level course.It provides an understanding of the auditor's decision-making process in both an audit of financial statements and an audit of internal control over financial reporting. It is designed to integrate the most important concepts of auditing in a structured and logical approach to assist the students to comprehend the audit decision making and evidence accumulation in today's complex auditing environment.
Pre-requisite(s): ACTG3151, ACTG3202

ACTG4202 AUDITING AND INVESTIGATIONS II **Credit 3**
This is a three-credit transfer-level course. This course is the continuation of ACTG4151. It provides an understanding of the auditor's decision-making process in both an audit of financial statements and an audit of internal control over financial reporting. It is designed to integrate the most important concepts of auditing in a structured and logical approach to assist the students to comprehend the audit decision making and evidence accumulation in today's complex auditing environment.
Pre-requisite(s): ACTG4011, ACTG4101 & ACTG4151

ACTG5101 ACCOUNTING FOR DECISION MAKING **Credit 3**
This course provides the learner with an overview of accounting concepts and the use of accounting information by decision makers. It will expose them to the two major areas of accounting, financial accounting and cost and management accounting. The financial accounting section will focus on the nature and scope of financial accounting, financial reporting (income statement, balance sheet and statement of cash flows), analysis of financial statements and working capital management. The cost and management accounting section will focus on costing principles and systems, budgeting and budgetary control systems and the development and use of cost data for external reporting and internal cost management. The overall emphasis of this course would be to focus learners' attention on the deve-

lopment of accounting data in ambiguous situations to assist managers in decision-making about future activities.
Pre-requisite(s): NONE

ALHL1012 HEALTH AND PRIMARY HEALTH CARE **Credit 2**
This course is required for first year Pharmacy and Medical Laboratory Technology students; however, any student in an Allied Health program may find it useful. Topics include: concepts; health behavior and health education; people working with people; planning for health education in primary health care; health education: individuals, groups, communities; communicating the health message. Course specifics: research project and behavior change project required.
Pre-requisite(s): NONE

ALHL2012 HUMAN ANATOMY AND PHYSIOLOGY I **Credit 3**
This course provides the vocabulary, theory, principles, and hands-on experience to support the practical, clinical and technical requirements of programs that require knowledge of human systems. The interrelationships of body systems are presented so that the human body is studied as an integrated whole and emphasis is placed on homeostatic mechanisms as they relate to health and disease. Topics include: revision of cell theory; cell structure, metabolism, reproduction; levels of organization; study of the normal histology; gross anatomy; physiology of body tissues; integumentary, skeletal, muscle, and nervous systems; interrelationship and integration of body systems; homeostatic mechanisms as they relate to health and disease. Course specifics: laboratory study includes examination of life-size models, and attendance at a post mortem.
Pre-requisite(s): BIOL1015, BIOL1015L

ALHL2021 HUMAN ANATOMY AND PHYSIOLOGY II **Credit 3**
This course provides the vocabulary, theory, principles, and hands-on experience to support the practical, clinical and technical requirements of programs that require knowledge of the human systems. The interrelationships of body systems are presented so that the human body is studied as an integrated whole and emphasis is placed on homeostatic mechanisms as they relate to health and disease. Topics include: anatomy and physiology of endocrine, circulatory, respiratory, immune, digestive, renal and reproductive systems; integrative homeostatic theories of life support and maintenance. Course specifics: laboratory study includes examination of life-size models.
Pre-requisite(s): BIOL2015

ALHL2905 BIOSTATISTICS FOR HEALTH PROFESSIONALS **Credit 3**
This course introduces statistics with an emphasis on the concepts and principles of biostatistics. It assists the student to utilize knowledge and skills in both that are essential for professionals in public health practice and research.
Pre-requisite(s): MATH1045

ALHL2951 SEXUAL AND REPRODUCTIVE HEALTH **Credit 3**
Sexual and Reproductive Health Care (Comprehensive Sexuality Education) explores the concepts and practices of sexual and reproductive health and comprehensive sexuality education. This course exposes students to the international commitments to provide comprehensive sexuality education and access to sexual and reproductive health and rights. Emphasis centers on understanding sexuality and the human life cycle, sexual and reproductive health; inclusive of family planning, contraception, pregnancy, gender, gender-based violence, and human sexual behavior. The course highlights HIV and other sexually transmitted infections and the national response to addressing the HIV pandemic. These concepts are translated into strategies for intervention to end sexual and reproductive health barriers

through the service delivery approach for practitioners in a social or medical setting.
Pre-requisite(s): SOCL1014, PSYC1014

ALHL3012 PATHOLOGY OF HUMAN DISEASE **Credit 3**
The course, Pathology of Human Disease, includes the etiology and mechanisms of common disease states and integrates pathology with previous knowledge from Human Anatomy and Physiology to provide the basic concepts of pathology in relation to the development of various diseases and diseases processes. This course will provide the foundation for further studies in Therapeutics & clinical laboratory science. As such, it covers the pathophysiology of disease processes, basic concepts of microbial diseases and neoplasms; and fluid and electrolyte imbalance. In addition, it focuses on various disorders of various body systems, organs, tissues and cells with practical applications for the allied health professional.
Pre-requisite(s): ALHL2021, BIOL1201

ALHL3904 RESEARCH FOR HEALTH PROFESSIONAL **Credit 3**
Students will develop skills necessary to conduct basic clinical and public health studies. This will include identifying research questions, determining samples, and study design; conducting literature review; analyzing data, and preparing reports/papers.
Pre-requisite(s): ENGL3155

ARCH1201 BUILDING SERVICES **Credit 2**
This course introduces students to the principles of Building services and their distribution. Emphasis will be on ventilation, water system, drainage and sewage, heat and electricity and day lighting.
Pre-requisite(s): NONE

ARCH1301 CONSTRUCTION DRAFTING I **Credit 3**
This three-credit course is to give students theory and practice in manual drafting skill, working drawing details and method of construction for small and medium residential structure. Students will develop complete sets of drawing details based on the various types of material used in construction, using good lines definition, technique, clarity thoroughness, dimensioning and lettering.
Pre-requisite(s): NONE

ARCH1352 CONSTRUCTION DRAFTING II **Credit 3**
The second of two courses designed for architectural students. This three-credit course give students, theory and practice in manual drafting media. The emphasis is one preparing construction details for small commercial construction and subsidiary to building works. Students will make decisions on materials selection and process. They will prepare construction details using good lines definition, technique, clarity, dimensioning and lettering.
Pre-requisite(s): ARCH1301

ARCH1401 INTRODUCTION TO ARCHITECTURAL DRAFTING **Credit 3**
This course introduces students to Architectural drawing conventions currently in use in the drafting field. Emphasis will be on Orthographic projection i.e. floor plan, elevation, sections. Students will also be introduced to parallel line drawing and perspective.

ARCH1452 ARCHITECTURAL DRAFTING **Credit 2**
Using the knowledge acquired in Intro. To Architectural drafting, the student will be introduced to the methods of designing all types of residential houses. Emphasis will be on testing the students' knowledge

in applying the appropriate sizes to architectural spaces.
Pre-requisite(s): ARCH1401

ARCH2401 SPECIAL ARCHITECTURAL PROBLEMS I **Credit 2**
This course introduces students to building services, equipment, and systems required to maintain the necessary living conditions of building occupants. Topics include: distribution services; ventilation and air conditioning; disposal systems; provision for disabled persons; and general services.
Pre-requisite(s): ARCH1452, ARCH1352

ARCH2452 SPECIAL ARCHITECTURAL PROBLEMS II **Credit 2**
To assist students in designing functional architectural projects. Students will work within a team and need to apply the knowledge and skills acquired in the first semester to work on a project throughout the semester.
Pre-requisite(s): ARCH2401

ARCH2552 ENVIRONMENTAL SCIENCE IN BLDS **Credit 3**
The main focuses of this course are the effect of heat; light and sound within buildings. Knowledge of these scientific principles will be employed to develop students' abilities to apply them to environmental factors associated with the design of the building environment.
Pre-requisite(s): NONE

ARSH6001 ADVANCED THEORY **Credit 4**
This MPhil course is a self-guided, in-depth course that covers specialized topics and advanced theories related to the chosen research area. The course will be developed at the discretion of the supervisor(s) and the candidate, and must be approved by the Graduate Studies Committee.

ARSH6051 ADVANCED RESEARCH METHODS **Credit 4**
This MPhil course is a higher-level advanced research methods course which will cover research methodology employed in quantitative, qualitative and/or mixed methods approaches and includes research design and execution. This course is tailored to target the specific needs of the candidates and their relevant fields of study.

ARSH6101 ADVANCED SCHOLARLY WRITING **Credit 4**
This MPhil course provides an overview of writing and organizational skills necessary for scholarly writing for proposals and publications of the highest caliber. Candidates must complete written exercise(s) which cover the different writing requirements for their particular field of study. This could include components of research design and the analytical framework necessary for best practices in scholarship in a wide variety of fields. The completion of the work may result in an article suitable for submission for publication in a peer reviewed journal. The nature of the work will be developed at the discretion of the supervisor(s) and the candidate.

BCNT1401 INTRODUCTION TO BUILDING CONSTRUCTION & DRAWING 1 **Credit 3**
This course prepares students for future positions at technician and supervisory levels in building and civil engineering emphasizing domestic, commercial, and industrial buildings. Topics include: preliminary items; types of structures; site works and setting out; foundations; floor construction; walls; roofs (up to00m span) and roof coverings.

Pre-requisite(s): NONE

BCNT2301 CONSTRUCTION ESTIMATING 1 **Credit 3**

The elements involved in the preparation of the contractor\'s bid proposal. Quantity takeoff, crew sizes, daily outputs, unit costs and organization of the bid packages into general contracted and subcontracted work.

Pre-requisite(s): BCNT1401

BCNT2352 CONSTRUCTION ESTIMATING 2 **Credit 3**

Students will be able to systematically and accurately ascertain quantities and compose concise descriptions of the materials and labour required and produce simple bills of quantities for domestic and simple industrial building projects. Topics include: historical development of quantity surveying; functions of the quantity surveyor; purpose of bills of quantities; mensuration; standard methods of measurement; take-off: groundwork, foundations, superstructure walls and associated items; floors, flat and pitched roofs; adjustment for openings; finishing: floor, walls, ceilings: adjustments of openings.

Pre-requisite(s): BCNT2301

BCOM2014 BUSINESS COMMUNICATION **Credit 3**

This course contains many features that will effectively promote learning and understanding in business communication. It is designed to enhance the communicator to actively participate in lively conversational writing style and logical organization. Students will have a clear view of communication in public and private settings.

Pre-requisite(s): ENGL1025

BIOL0016 DEVELOPMENTAL BIOLOGY **Credit 0**

This pre-university course contains the background information needed for General Biology I/BIOL1015, BIOL1015L. Topics include: overview of classification, chemistry of life, transport systems, reproduction, genetics and ecology.

Pre-requisite(s): Integrated Science in High School

BIOL1015 GENERAL BIOLOGY I **Credit 3**

This course covers the general topics of organization and activities within the cell. Topics include: scientific method; chemical building blocks of life; cell structure; membranes; energy and metabolism; cellular respiration; photosynthesis; cell cycle and division; mitosis; sexual reproduction; meiosis; patterns of inheritance; DNA; genes; gene action and control; altering the genetic message.

Pre-requisite(s): High School Biology or successful completion of BIOL0016

Co-requisite(s): BIOL1015L

BIOL1015L GENERAL BIOLOGY I LAB **Credit 1**

This laboratory course runs parallel with BIOL1015. It exposes students to basic microscopic study of cellular composition, structure and organization, mitosis and meiosis; and some biochemical tests,

Pre-requisite(s): High School Biology or successful completion of BIOL0016

Co-requisite(s): BIOL1015

BIOL1025 GENERAL BIOLOGY II **Credit 3**

This course is designed to provide an overview of taxonomy, structural and physiological features, and the basic bi- ology for all groups of living organisms. Topics include: taxonomy; viruses; bacteria; protists; fungi; vascular plant anatomy and physiology; porifera; cnidaria; platyhelminthes; nemathelminthes; mollusks; annelida; arthopoda; echinodermata; chordata; structure and function of ske-

letal, digestive, circulatory, respiratory, excretory, integumentary, reproductive, nervous and endocrine systems.
Pre-requisite(s): BIOL1015, BIOL1015L
Co-requisite(s): BIOL1025L

BIOL1025L GENERAL BIOLOGY LAB II **Credit 1**
This laboratory course runs parallel with BIOL1025. It allows students to examine samples of organisms found in the various phyla covered in BIOL1025.
Pre-requisite(s): BIOL1015, BIOL1015L
Co-requisite(s): BIOL1025

BIOL1151 CYTOLOGY **Credit 3**
This course introduces biology majors to the structures and functions of cells and their organelles. Topics include: cell theory; ultra-structure of prokaryotic and eukaryotic cells; structure and functions of cell organelles and inclusions; cell division; DNA replication; transcription; translation; and acellular infectious particles.
Pre-requisite(s): High School Biology
Co-requisite(s): BIOL1251L

BIOL1201 INTRODUCTION TO BIOCHEMISTRY **Credit 3**
This introduction to basic biochemistry and chemistry activity in the cell examines the structure and function of fundamental chemicals of living organisms: carbohydrates, lipids, proteins, enzymes, inorganic ions and water. Topics include: fundamental chemicals of living organisms; monomers and chemicals bonds; carbohydrates; disaccharides and polysaccharides; lipids; the role of lipids in organisms; proteins; dipetides and polypetides; quaternary structure; inorganic ions; roles of calcium and iron; pH; colloids; water; enzymes: role, protein nature, mode of action and substrate, properties, denaturation and inhibition.
Pre-requisite(s): High School CHEM or CHEM1015, CHEM1015L
Co-requisite(s): BIOL1251L

BIOL1251L BIOLOGY LAB I **Credit 1**
This lab course covers the laboratory aspects of BIOL1151: Cytology and BIOL1201: Biochemistry. Topics include: testing for reducing and non- reducing sugar; plant cells; testing for starch; animal cells; oil and fat tests; mitochondria; testing for proteins; plastids; aldose and ketose tests; mitosis / meiosis; enzyme reaction and the effects of temperature; virus; effect of acid and based on enzyme reaction; microscopic observations of cell types; biochemical tests.
Pre-requisite(s): NONE
Co-requisite(s): BIOL1151, BIOL1201

BIOL1302 BIODIVERSITY **Credit 4**
This course discusses major principals behind classification and taxonomic systems and problems of defining species. It provides students the opportunity to understand the wide diversity of living organisms. Topics include: intro- duction to taxonomy: purpose, principles, and classification; concept of species and nomenclature; characteristics and diversity of viruses; bacteria; archaebacteria; protists; bryophytes; pteridophytes; gymnosperms; angiosperms; fungi; sponges; cnidarians; flatworms; mollusks; annelids; nematodes; arthropods; echinoderms; chordates.
Pre-requisite(s): BIOL1151
Co-requisite(s): BIOL1402L

BIOL1352 REPRODUCTION, GENETICS AND EVOLUTION **Credit 3**

This course is designed to provide a comprehensive knowledge of reproduction in plants and animals, principles of inheritance, processes of natural selection, and causes of evolution. Topics include: reproduction in flowering plants: sexual and asexual reproduction, pollination, fertilization, development of embryo within seeds; human reproductive system: hormonal control of uterine cycles, control of fertility; Mendels experiments and Laws of Inheritance: monohybrid and di-hybrid crosses, sex- linked inheritance, DNA and its role in heredity; mechanism of evolution: results of natural selection; species and their formation; reproductive isolation mechanisms; mutations as changes in genetic material.

Pre-requisite(s): BIOL1025, BIOL1025L or BIOL1151

Co-requisite(s): BIOL1402L

BIOL1402L BIOLOGY LAB II **Credit 1**

This course is designed to provide an overview of taxonomy, structural and physiological features, and the basic bi- ology for all groups of living organisms. Topics include: taxonomy; viruses; bacteria; protists; fungi; vascular plant anatomy and physiology; porifera; cnidaria; platyhelminthes; nemathelminthes; mollusks; annelida; arthopoda; echinodermata; chordata; structure and function of skeletal, digestive, circulatory, respiratory, excretory, integumentary, reproductive, nervous and endocrine systems.

Pre-requisite(s): High School Biology or equivalent

Co-requisite(s): BIOL1302, BIOL1352

BIOL2151 PLANT PHYSIOLOGY **Credit 2**

The course deals with the applied aspects of plant development and the interaction with the environment. Topics include: water relations; xylem and phloem transport; transpiration; mineral nutrition; plant growth regulators; phytochromes; photoreceptors; photomorphogenesis; leaf abscission; seed germination; dormancy; flowering.

Pre-requisite(s): BIOL1151

Co-requisite(s): BIOL2301L

BIOL2201 ENERGETICS **Credit 2**

This course covers various topics of bioenergetics including energy of biological systems Topics include: introduction to nutrition: heterotrophic and autotrophic; uses of energy and nutrients in plants and animals; conversion of light energy from the sun to chemical energy in green plants; nutrition of the flowering plant; mechanism of photo- synthesis; photosynthesis equation; process of photosynthesis; conversion of carbon dioxide to carbohydrates; uses of ATP and reduced NADP by the C3 and C4 pathway; concept of limiting factors; rate of photosynthesis; cellular respiration; aerobic and anaerobic respiration; glycolysis; tricarboxylic acid (Krebs) cycle; electron transport; pro- duction of ATP from NAD; use of ATP: in cellular energy transfer, in animals and plants.

Pre-requisite(s): BIOL1151 & BIOL1201

Co-requisite(s): BIOL2301L

BIOL2251 HUMAN HEALTH AND DISEASE **Credit 3**

This course exposes students to the topics of health and disease, provides an appreciation of disease in the global context, examines factors that affect patterns of disease and principles upon which preventative medicine is based, and gauges the extent to which people can influence their health through their behavior. Topics include: health and disease; diet; gaseous exchange; exercise; drugs; mental health; disease in a global context; infectious disease; immunity: active, passive, natural and artificial; vaccination; principles of prevention.

Pre-requisite(s): NONE

BIOL2301L BIOLOGY LAB III **Credit 1**

This lab course covers the laboratory aspects of BIOL2151 Plant Physiology and BIOL2201 Energetics. Topics include: water potential; osmotic potential of cell sap; enzyme action; factors affecting transpiration rate; transpiration; hypogeal and epigeal germination; effect of light intensity on photosynthetic rate; photosynthetic pigments; anaerobic cellular respiration; respiration.
Pre-requisite(s): BIOL1251L & BIOL1402L
Co-requisite(s): BIOL2151, BIOL2201

BIOL2352 ANIMAL PHYSIOLOGY **Credit 2**

This course provides an overview of the basic principles of animal physiology and focuses on the more important and generalized principles such as circulatory systems in animals, nervous coordination, hormonal control, homeostasis, excretion and osmoregulation. Topics include: animal function; relationship between physiology, structures (anatomy), and the environment; circulatory system; nervous system; endocrine system; homeostasis; excretion; osmoregulation.
Pre-requisite(s): BIOL2201
Co-requisite(s): BIOL2502L, BIOL2301L

BIOL2402 ECOLOGY **Credit 2**

This course provides an understanding of the basic ecological terminology, principles, concepts, of ecology and eco- logical systems on both the local and global levels. Topics include: introduction to ecology: definition and history; tools for ecology: research methods and data interpretation; organisms and their environment; biomes; populations: definitions, influencing factors, regulation; species distribution and dispersal; niches; species richness; communities; ecosystem ecology; humans and ecology: development, sustainability, extinction, conservation, pollution, and global climate.
Pre-requisite(s): NONE
Co-requisite(s): BIOL2502L

BIOL2452 GROWTH AND DEVELOPMENT **Credit 2**

This course covers the basic concepts of growth and development in a wide range of organisms. Topics include: overview of growth development and differentiation; fertilization; hormonal control in higher plants and animals; cleavage; gastriculation; neurulation; pattern formation; metamorphosis.
Pre-requisite(s): NONE
Co-requisite(s): BIOL2502L

BIOL3151 NATURAL HISTORY OF INVERTEBRATES **Credit 3**

This course provides an overview of vertebrate diversity and classification, major characteristics for general life styles, morphology, physiology, ecology, behavior and basic phylogeny. Topics include: classification; phylogeny of animal kingdom; protozoa; introduction to metazoa; sponges; cnidarians; ctenophores; coral reefs; flat worms; annelids; mollusks; anthropods; order of importance; echinodermata; deuterosomes; chordata. Course specifics: field trip is required.
Pre-requisite(s): BIOL1025, BIOL1025L
Co-requisite(s): BIOL3151L

BIOL3151L NATURAL HISTORY OF INVERTEBRATES LAB **Credit 1**

This course covers the laboratory aspects of BIOL 3151. The lab involves viewing of permanent slides, specimens, preparation of slides, dissections and field trip to understand the diversity, form and function of major group of invertebrates such as protozoa; sponges; cnidarians; flat worms; mollusks; annelids;

arthropods; echinodermata; deuterostomes.
Co-requisite(s): BIOL351L

BIOL3201 OCEANOGRAPHY **Credit 3**
This course is designed to acquaint students with all sciences of oceanography with a focus on the modern concepts in physical oceanography and marine geology that describe the oceans as a unique environment of critical importance to human well-being. Topics include: sedimentary/structural framework of the ocean margins and deep basins; theory of plate tectonics; water mass formation; wind-driven ocean currents; beaches; tides; climate change; pollution; interrelationships of physical ocean processes and marine life; the exploitation of ocean resources; technological developments that lead to the understanding current; future societal issues involving the oceans. Course specifics: weekend field trip required.
Pre-requisite(s): NONE

BIOL3251 BIOCHEMISTRY **Credit 3**
This introduction to basic biochemistry and chemistry activity in the cell is devoted to the structure and function of fundamental chemicals of living organisms. Topics include: carbohydrates, lipids, proteins, enzymes, inorganic ions and water. Topics include: fundamental chemicals of living organisms; monomers and chemicals bonds; carbohydrates; disaccharides and polysaccharides; lipids; the role of lipids in organisms; proteins; dipetides and polypetides; quaternary structure; inorganic ions; roles of calcium and iron; ph colloids; water; enzymes: role, protein nature, mode of action and substrate, properties, denaturation and inhibition.
Pre-requisite(s): CHEM1025
Co-requisite(s): BIOL3251L

BIOL3251L BIOCHEMISTRY LAB **Credit 1**
This laboratory course is structured to incorporate experiments representative of material being covered in BIOL3251. It introduces methods and techniques of chemical experimentation related to the topics covered in lecture.
Co-requisite(s): BIOL3251

BIOL3252 LOWER PLANTS **Credit 3**
The course deals with the study of morphology, life cycle strategies, reproduction, anatomy and chemical constituents of non-flowering plants. Topics include: cyanobacteria; photosynthetic protists: volvocaceans, chlorophyta, charophyceans; stramenopiles; red algae, brown algae, and endosymbionts; plants without seeds; the conquest of land; alternation of generations; liverworts; hornworts; mosses; tracheophytes-rhyniophyta; club mosses; horse tails; water ferns. Course specifics:0-day field trip to study taxonomical principles is conducted during the course.
Pre-requisite(s): BIOL1302 OR BIOL1015, BIOL1015L
Co-requisite(s): BIOL3302L

BIOL3252L LOWER PLANTS LAB **Credit 1**
This lab course covers the laboratory aspects of BIOL3252
Co-requisite(s): BIOL3252

BIOL3352 NATURAL HISTORY OF VERTEBRATES **Credit 3**
This course exposes students to an overview of vertebrate diversity and classification, major characteristics for general life styles, morphology, physiology, ecology, behavior and basic phylogeny. Topics include: chordate characteristics and classification; origin and evolution of vertebrates; vertebrate

organ systems and their evolution; extant jawless fishes: hag, lampreys, chondrichthyes, bony; amphibians: salamanders, anurans, and caecilians; reptiles: turtles, tuatara, lizards, amphibians, and snakes; birds: flight, ecology, and behavior; mammals: monotremes, marsupials, and placental.
Pre-requisite(s): BIOL1302 & BIOL1352
Co-requisite(s): BIOL3352L

BIOL3352L NATURAL HISTORY OF VERTEBRATES LAB **Credit 1**
This course covers the laboratory aspects of BIOL 3352. The lab involves viewing of permanent slides, specimens, preparation of slides, dissections and field trips to understand the diversity, form and function of major groups of vertebrates such as fishes, amphibians, reptiles, birds & mammals.
Co-requisite(s): BIOL3352

BIOL3402 GENERAL MICROBIOLOGY **Credit 3**
This course, offered primarily for biology and health science majors, provides an in-depth study of the basic principles and concepts of microbiology. Topics include: microbial taxonomy; metabolism; genetics; aseptic techniques; importance of microorganisms in agriculture, medicine, land industry.
Pre-requisite(s): BIOL1151 OR BIOL1015, BIOL1015L

BIOL3402L GENERAL MICROBIOLOGY LAB **Credit 1**
This lab course covers the laboratory aspects of BIOL3402.
Co-requisite(s): BIOL3402

BIOL3452 MARINE ECOSYSTEMS **Credit 3**
This course covers biological and ecological principles of marine systems, global and regional marine environmental concerns and conservation issues. Topics include: principles of marine ecology; plankton and nekton communities; basic oceanography; ecosystems: interstitial, intertidal, sub-tidal, deep sea; human impacts; global and regional marine environmental concerns. Course specifics: field trip and course project required.
Pre-requisite(s): NONE

BIOL4151 HIGHER PLANTS **Credit 3**
In this course the structure, function and classification of the higher plants (gymnosperms and angiosperms) presented in lecture is reinforced by laboratory and field activities. Topics include: evolution of gymnosperms and angiosperms; plant cells and tissues; seed germination and seedling development; development of roots, shoots, leaves, flowers and fruits; secondary growth; plant community interactions. Course specifics: field trip is required.
Pre-requisite(s): BIOL1151, BIOL1302 OR BIOL1015, BIOL1015L, BIOL1025,0025L

BIOL4151L HIGHER PLANTS LAB **Credit 1**
This lab course covers the laboratory aspects of BIOL4151.
Co-requisite(s): BIOL4151

BIOL4201 GENETICS AND MOLECULAR BIOLOGY **Credit 3**
The course examines classical Mendelian genetics coupled with practical applications of molecular biology. Topics include: classical genetics: works of Mendel; exceptions and extensions of Mendelian genetics; molecular aspects of genetics; factors causing variation in the genetic material; modern genetics and applications.
Pre-requisite(s): BIOL3402, BIOL3402L & BIOL1352
Co-requisite(s): BIOL4201L

BIOL4201L GENETICS AND MOLECULAR BIOLOGY LAB **Credit 1**
This lab course covers the laboratory aspects of BIOL4201.
Co-requisite(s): BIOL4201

BIOL4251 COASTAL ZONE MANAGEMENT **Credit 3**
This course introduces the major concepts and principals of coastal zone management providing students with an understanding of the role that coastal zone management plays in balancing use and conservation. Topics include: coastal zone ecosystems (structures and functions); historical use of coastal zones; major stakeholders in coastal zones; integrated coastal zone management (ICZM): concept, triggers, guiding principles; functions and capacity: synopsis of various int'l & regional conventions and summits; case studies of human impact on coastal zones.
Pre-requisite(s): BIOL3452

BIOL4302 MYCOLOGY **Credit 3**
This course focuses on the morphology, reproduction & taxonomy of major groups of fungi, and the basic biology of fungi including their roles in various ecosystems and their direct and indirect impacts on humans. Topics include: morphology; reproduction & taxonomy of major groups of fungi; examination of numerous macroscopic and microscopic fungal specimens, physiology, genetics, and culturing of fungi.
Course specifics: field trip and project are required.
Pre-requisite(s): BIOL3402 & BIOL3402L
Co-requisite(s): BIOL4302L

BIOL4302L MYCOLOGY LAB **Credit 1**
This lab course covers the laboratory aspects of BIOL4302 including examination of numerous macroscopic and microscopic fungal specimens and culturing of fungi.
Co-requisite(s): BIOL4302

BIOL4352 ECOLOGY AND EVOLUTION **Credit 3**
This course introduces evolutionary biological analysis. Topics include: ecosystems; introduction to evolution; adaptation; spatial and temporal distribution; life histories; sex and evolution; population dynamics; interspecific associations; community ecology; speciation; adaptive radiation; co-evolution.
Course specifics: a two- to-three-day field trip to one of the national protected areas is included for studying conservation.
Pre-requisite(s): BIOL1151, BIOL1302, BIOL1352 OR BIOL1015 & BIOL1015L, BIOL1025 & BIOL1025L, BIOL2402

BIOL4352L ECOLOGY AND EVOLUTION LAB **Credit 1**
This lab course covers the laboratory aspects of BIOL4352.
Co-requisite(s): BIOL4352

BIOL4402 FISH AND FISHERIES **Credit 3**
This course provides a comprehensive introduction to the biology and ecology of fishes and to fisheries management concepts with focus on Belize and the region. Topics include: systematics and classification; anatomy and physiology; feeding and nutrition; growth and reproductive strategies; fish behavior; ecology and distribution; population dynamics; fishing gear; fisheries yield models; fisheries management concepts; fisheries of Belize; fish identification, assessment and monitoring techniques.
Course specifics: weekend field trip and semester research project focused on the fisheries industry of Belize required.

Pre-requisite(s): NONE
Co-requisite(s): BIOL4402L

BIOL4402L FISH AND FISHERIES LAB **Credit 1**
This lab course covers the laboratory aspects of BIOL4402.
Co-requisite(s): BIOL4402

BIOL4992 INDEPENDENT RESEARCH **Credit 3**
Upon approval, students complete a research under the guided supervision of a Biology Lecturer OR students can register for: INTRODUCTION TO TISSUE CULTURE Introduction to Biotechnology. Commercial Application of Plant Biotechnology. Tissue Culture Organogenesis, Somatic Embryogenesis. Biodiversity, Biosafety, Bioethics, and Biotechnology. Future Possibilities for Biotechnology. Research activity follows the 7-week theory session.
Pre-requisite(s): MATH3012, SENIOR STANDING

BLAW2014 BUSINESS LAW **Credit 3**
This course should allow the business student to develop an understanding of the ethical, social, political, legal and regulatory issues in the business environment in Belize, the region and the wider global community. It should also enable the student to be exposed to issues based on the conflicting rights and duties of individuals, organizations, and other sectors in the domestic and global society.
Pre-requisite(s): ENGL1025

BLAW5102- BUSINESS & ADMINISTRATIVE LAW **Credit 3**
This course is designed to analyze the legal environment in which business operates. Cases, text material, and class discussion emphasize judicial process, torts, contracts, product liability, agency, business formations (partnerships & corporations), employment law, antitrust, consumer protection, international business law, intellectual property and real property. Students will develop their critical thinking skills while examining legal cases within a business context.
Pre-requisite(s): NONE

BLDG1101 GEOMETRICAL DRAWING **Credit 2**
This course introduces students to the standard method of preparing and communicating technical information on the drawing paper. The principles of using manual drawing instruments, preparing plane, solid and building geometry will be covered in this course. The ability to visualize in three dimensions should be developed.
Pre-requisite(s): NONE

BLDG2301 MEASUREMENT AND ESTIMATING I **Credit 3**
Traces the historical development of quantity surveying and examines the functions of the Quantity Surveyor. It also develops the ability to think clearly and compose concise and accurate descriptions systematically and accurately, of the quantity of labor and materials required for a construction project.
Pre-requisite(s): NONE

BLDG2352 MEASUREMENT AND ESTIMATING II **Credit 3**
This course develops the ability to think clearly and compose concise and accurate descriptions systematically and accurately, of the quantity of labor and materials required for a construction project. It provides the method of measuring various components of the construction process and preparing bills of quantities and estimate cost of construction.
Pre-requisite(s): BLDG2301

CALL101C COMPUTER ASSISTED LANGUAGE LEARNING **Credit 2**
This course exposes students to a number of language learning strategies and offers them opportunities to improve the four basic language skills as they explore the English language using the computer and internet. Topics include: listening and comprehension; reading; writing and oral communication.
Pre-requisite(s): NONE

CENG3201 INTRODUCTION TO CONSTRUCTION MANAGEMENT **Credit 3**
This course involves the study of construction management functions including Project Management, Cost Management, Time Management, Quality Management, Contract Administration, and Safety Management. Emphasis is put on the application of each function throughout the project phases. (Coursework)
Pre-requisite(s): NONE

CENG3051 INFORMATION TECHNOLOGY FOR ENGINEERS (BASIC CODING) **Credit 3**
–Numerical analysis methods – f(x)=0; integration; solutions of differential equations, introduction to computer programming – flow charts; algorithms; variables, types, storage, scope; sequence, branch, loop; graphical output; introduction to using MATLAB for numerical analysis. Introduction to Visual Basic, Basic Programming (C+, C++ etc.)
Co-requisite(s): MATH2201

CENG3011 INTRODUCTION TO CONCEPTUAL DESIGN **Credit 3**
Concept of design and its contribution to the quality of life; Civil Engineering Design, the role of geomatics, the environment, and scientific laws in design; Introduction to the design of buildings and Civil Engineering Infrastructure, site appraisal; Risk and vulnerability in design; Health and safety in Civil Engineering Design, environmental impact assessment; Civil Engineering drawing, CAD techniques, introduction to GIS techniques.
Pre-requisite(s): ALL ACET COURSES

CENG3062L SCIENCE OF MATERIALS AND MATERIAL TESTING01 **Credit 3**
Fundamental structure, properties and behaviour of other major materials used in Civil Engineering; concrete, asphalt, timber, soil, rock, paints, polymers, adhesives, composite materials; Durability and deterioration; Hazardous materials, classification and handling ion; Hazardous materials, classification and handling. A practical approach to common testing procedures for concrete testing in laboratories and on-site testing (compressive tests and analysis, slump tests, batch tests, etc.)
Pre-requisite(s): NONE

CENG3152L FUNDAMENTALS OF CONSTRUCTION TECHNOLOGY + TECHNIQUES Credit 4
The student will be introduced to methods of determining the most suitable means of construction for specific purposes. The student will be introduced to the benefits of additions to conventional and already established methods. Determining admixtures, aggregates, additives, etc. The student will be introduced to current common practice and how to navigate non-conventional/innovative/newer methods of construction.
Pre-requisite(s): NONE

CENG3202 DETERMINING CONSTRUCTION MACHINERY **Credit 3**
The student will learn the different types of machinery on a construction site, depending upon the nature and size of the project. The student will be introduced to methods of determining the most adequate machinery for the tasks presented.

Pre-requisite(s): NONE

CENG3993 INTERNSHIP (PRACTICUM) **Credit 3**

The student is to be placed in a suitable position in industry where learned skills may be applied and enhanced. 800 weeks. The student will be required a comprehensive paper detailing the activities conducted, how they may be improved (if possible) and how the activities conducted may be beneficial to the overall project success.

Pre-requisite(s): NONE

CENG4011 FUNDAMENTALS OF STRUCTURAL MECHANICS **Credit 3**

Simple static forces, stress, strain. Hardness, impact, temperature effects. Two-dimensional stress and strain, torsion, combined stresses. Statically determinate beams and plane frames. Bending theory and moment, shearing, force, slope, deflection, moment-area. A practical approach to predicting the behaviour of fundamental structural elements (beams, columns, etc).

Pre-requisite(s): ALL ACET COURSES

CENG4061 PRELIMINARY DRAINAGE DESIGN (MECHANICS OF FLUIDS) **Credit 3**

Physical properties of fluids - statics: pressure distribution, forces on plane and curved surfaces, floating stability. Kinematics: ideal and real fluid, streamlines, path lines, streak lines; graphical plotting of streamlines.

Dynamics: continuity, momentum and energy equations for one-dimensional flow. Laminar and turbulent flow, flow in pipes, flow measurements. Introduction to dimensional analysis. Dynamic similarity. Boundary layers. Pipe friction. Darcy equation. Rotodynamic machines: selection; performance, cavitation. Preliminary sizing of channels, drains, culverts.

Pre-requisite(s): MATH2201

CENG4111 PRELIMINARY FOUNDATION DETERMINATION **Credit 3**

Applications of geotechnical information in determining the suitability of the different types of foundation. Determining the adequacy of a chosen foundation. Preliminary sizing of shallow foundations

Pre-requisite(s): CIVT1401,MATH2201

CENG4161 METHODS IN PAVEMENT DESIGN **Credit 3**

Application of specific methods of basic pavement design. Determining the appropriate type of pavement design for specific purposes.

Pre-requisite(s): CIVT1401,CIVT2251, CIVT2552, CENG3011, MATH2201

CENG4202 CONSTRUCTION BID PREPARATION **Credit 3**

A comprehensive course that demonstrates the essentials of preparing a bid for construction projects. This course may be taken independently by members of industry. The student, upon successful completion, will be able to put together a complete bid package to the standards of the major International Financing Institutions (IFI's) as well as potential employers

Pre-requisite(s): NONE

CENG4212 SPECIAL INVESTIGATIVE PROJECT **Credit 9**

The student shall be presented with a real-world problem, suitable to the level necessary, and the student shall be expected to complete, in totality, the task assigned. (Final Paper)

Pre-requisite(s): ALL LEVEL0,2,3,4 COURSES

CENG4252 INTRODUCTION TO CONSTRUCTION CONTRACT MANAGEMENT **Credit 4**
This course involves the study of construction management functions including Project Management, Cost Management, Time Management, Quality Management, Contract Administration, and Safety Management. Emphasis is put on the application of each function throughout the project phases. (Coursework)
Pre-requisite(s): NONE

CESL010B BELIZEAN STUDIES **Credit 2**
This course serves as the medium for acculturation of international students recently enrolled at UB into the Belizean environment. Topics include: history; geography; culture; politics; the arts; and economics.

CESL010C CONVERSATIONAL SKILLS 1 **Credit 4**
This course exposes students to the basic elements of speaking and prepares them to communicate effectively, and professionally at the early beginner's level. Topics include: English consonants; long and short vowel sounds; directions/locations: asking for and giving basic directions; expressions of greeting/expressions of leave-taking; oral grammar: subject-verb agreement, present tense; sounds of plural endings; making basic requests; affirmative and negative questions.

CESL010G GRAMMAR 1 **Credit 4**
This course presents grammatical structures and the fundamentals of English structure in a meaningful context using different types of communicative activities. Topics include: parts of speech; pronouns: subject, object: adjectives; adverbs, prepositions; conjunctions; verbs: be, present and simple past tense: irregular, regular; interjections.
Pre-requisite(s): NONE

CESL010R READING AND VOCABULARY DEVELOPMENT 1 **Credit 3**
This course introduces language learners to the reading of varied texts and materials, basic phonics, vocabulary development and pre-reading strategies. Topics include: animals; how and why questions; plants; popular music and culture; occupations; interesting people of the world; exploration and adventure.
Pre-requisite(s): NONE

CESL010W WRITING 1 **Credit 4**
This course uses a developmental writing approach and focuses on vocabulary development to facilitate the learning of simple English discourse structures, syntactic forms, and conventions of writing.
Pre-requisite(s): NONE

CESL020C CONVERSATIONAL SKILLS 2 **Credit 4**
This course exposes students to the basic elements of speaking and improves their ability to communicate effectively and professionally at the intermediate beginner level. Topics include: asking for and following directions using interrogative pronouns; consonant sounds; vowel sounds; listening for specific information; shared sounds: consonant clusters; distinguishing words with similar sounds (homophones); vocabulary development.
Pre-requisite(s): CESL010C

CESL020G GRAMMAR 2 **Credit 4**
This course presents grammatical structures and the fundamentals of English structure in meaningful

contexts using different types of communicative activities. Topics include: pronouns; subject-verb agreement; coordinating con- junctions: and, but; WH- questions; adjectives; verbs: present continuous; prepositions.
Pre-requisite(s): CESL010G

CESL020R READING AND VOCABULARY DEVELOPMENT 2 **Credit 3**
This course focuses on increasing reading comprehension, intermediate vocabulary development and dictionary usage, structural analysis and additional pre-reading and reading strategies. Topics include: decoding; defining words using context; vocabulary development and dictionary skills.
Pre-requisite(s): CESL010R

CESL020W WRITING 2 **Credit 4**
This course uses practical application of grammatical structures to enable students to write different types of sentences in a variety of genres, engage in vocabulary building exercises, and complete creative tasks. Topics include: the body; vocabulary; sentence punctuation; adjectives; adverbs; capitalization; the hospital/doctor or dentist office; commas; questions; news: local and international; verb tenses; family; nature; holidays: synonyms.
Pre-requisite(s): CESL010W

CESL030C CONVERSATIONAL SKILLS 3 **Credit 4**
This course further exposes students to the basic elements of speaking and further builds their ability to communicate effectively, and professionally. Topics include: formal and informal requests; listening to get the main idea and specific details; making and responding to compliments; listening to and making judgments; describing simple objects; processes and procedures; minimal pairs of problematic vowel sounds.
Pre-requisite(s): CESL020C

CESL030G GRAMMAR 3 **Credit 4**
This course presents grammatical structures and the fundamentals of English structure in meaningful contexts using different types of communicative activities. Topics include: adjectives: degrees of comparison; adverbs: position of verbs; simple transitions: adding information, showing contrast; conjunctions; verbs: past-tense; prepositions.
Pre-requisite(s): CESL020G

CESL030R READING AND VOCABULARY DEVELOPMENT 3 **Credit 3**
This course focuses on the continued increase in reading comprehension with intermediate vocabulary development and dictionary usage, structural analysis, and additional pre-reading and reading strategies. Topics include: learning new words; word categories; word families; word parts; decoding phrases; learning and using words in context; getting the main idea; scanning and skimming reading material.
Pre-requisite(s): CESL020R

CESL030W WRITING 3 **Credit 4**
This course makes practical application of grammatical structures to enable students to write different types of paragraphs, summarize short prose passages, and complete tasks. Topics include: sentence parts; time and person in writing; paragraph writing; comparative paragraphs; writing a summary; writing a formal letter; journal writing.
Pre-requisite(s): CESL020W

CESL040C CONVERSATIONAL SKILLS 4 **Credit 4**

This course further exposes students to the basic elements of speaking and builds their ability to communicate effectively and professionally. Topics include: making justifications and giving substantiating evidence; expressing necessity and making requests; expressing intentions; listening to take notes; listening for specific details; following the logic of a story; initiating conversations; ending/wrapping up conversations; checking, verifying, and indicating understanding; listening and making predictions; conversing for pleasure; intonation: polite and rude.

Pre-requisite(s): CESL030C

CESL040G GRAMMAR 4 **Credit 4**

This course presents grammatical structures using different types of communicative activities and complex structures. Topics include: transitions; conclusions; cause and effect; imperative sentences; pronouns: indefinite, reflexive; direct and indirect speech; prepositions.

Pre-requisite(s): CESL030G

CESL040R READING AND VOCABULARY DEVELOPMENT 4 **Credit 3**

This course, for students with more advanced vocabulary development, emphasizes word and dictionary usage, structural analysis, and pre-reading and reading strategies such as outlines and inferences. Topics include: inferring meaning from context; using punctuation; synonyms; clues; finding topic sentences; distinguishing between general and specific ideas; analyzing sentence structure: parallelism; identifying main ideas when there is no specified topic; summarizing; making inferences; synthesizing information; distinguishing facts from fiction.

Pre-requisite(s): CESL030R

CESL040W WRITING 4 **Credit 4**

This course emphasizes discourse structures, syntactic forms and conventions of writing to support developmental stages of writing using practical applications of grammatical structures to enable writing of longer and more complex paragraphs in a variety of genres. Topics include: compound sentences; complex sentences; resume/curriculum vitae writing; composition writing; summarizing; letter writing; peer-editing for mistakes: subject verb agreement, usage, punctuation.

Pre-requisite(s): CESL030W

CESL050C CONVERSATIONAL SKILLS 5 **Credit 4**

This course exposes students to the basic elements of speaking and builds their ability to communicate effectively, ethically, and professionally. Topics include: generating conversations using phrasal verbs; getting and giving in- formation using the perfect tense; stressing important information; expressing intentions; expectations; making promises; listening to explanations and making deductions; listening for main points; following rapid speech; ex- pressing necessity, obligation, regrets; recognizing intonation and patterns of exclamation.

Pre-requisite(s): CESL040C

CESL050G GRAMMAR 5 **Credit 4**

This course presents grammatical structures using different types of communicative activities focusing on more complex syntax structures. Topics include: transitions; imperatives; cause and effect words; pronouns; direct and indirect speech; prepositions.

Pre-requisite(s): CESL040G

CESL050R READING AND VOCABULARY DEVELOPMENT 5 **Credit 3**

This course equips students with skills that will enable them to read in a meaningful rather than a mech-

anical way. Topics include: summary and inference reading; building a precise; vivid and varied vocabulary; finding and analyzing facts; reading for a specific purpose; techniques for reading faster: skimming and scanning.
Pre-requisite(s): CESL040R

CESL050W WRITING 5 **Credit 4**
This course focuses on the writing process, including writing a research paper using APA format; writing news articles and how to write essays. Topics include: sentence review: parts, types; process writing: thesis, supporting main ideas, precision and creative effect; research summarizing; paraphrasing; recipes; complex narrative; research.
Pre-requisite(s): CESL040W

CESL060C CONVERSATIONAL SKILLS 6 **Credit 4**
This course exposes students to the essential elements of speaking and enhances student's ability to communicate effectively and professionally at a more advanced level. Topics include: building a profile of a good speaker; communication; exchanging views; drawing conclusions; giving advice; listening for specific details; logic of a story; conversation; listening for fillers; filtering conversations; judging attitudes; paraphrasing routine and familiar situations; expressing opinions.
Pre-requisite(s): CESL050C

CESL060G GRAMMAR 6 **Credit 4**
This course focuses on the internalization and mastery of grammatical structures including the acquisition of more complex structures necessary for academic speaking and writing. Topics include: modals; punctuation: semi-colon, dash, colon; clauses: adverbial, adjectival, noun; phrases: adverb, adjective, noun; slang and idiomatic expressions.
Pre-requisite(s): CESL050G

CESL060R READING AND VOCABULARY DEVELOPMENT 6 **Credit 3**
This course focuses on reading at or above college level for the development of students' thinking, reasoning and problem-solving skills. Topics include: defining new words from context; techniques for reading faster; scanning for specific information to develop and contrast; hearing rhyme and rhythm in poetry; distinguishing between facts and opinions; skimming for the main idea and skimming a narrative story.
Pre-requisite(s): CESL050R

CESL060W WRITING 6 **Credit 4**
This course uses practical applications of grammatical structures, the writing process, simple research methods and discourse structures to produce different types of essays and other writing genres in a more complex structure. Topics include: college compositions: introduction; supporting evidence and conclusions; writing process; persuasive essays; informative essays; summarizing/paraphrasing; supporting information; simple research methods to write essays; complex transitions; writing a bibliography (MLA or APA); editing for details, organization, and grammar.
Pre-requisite(s): CESL050W

CESL070C CONVERSATIONAL SKILLS 7 **Credit 4**
This course exposes students to the essential elements of speaking and develops their ability to communicate effectively and professionally at a more advanced level. Topics include: maintaining focus in a conversation; shifting focus in a conversation; maintaining the conversation; speaking to different audiences; debating critical issues; ex- pressing possibility; capability; ability; expressing obligations

and necessity.
Pre-requisite(s): CESL060C

CESL070G GRAMMAR 7 **Credit 4**
This course emphasizes grammatical accuracy and the use of advanced grammar structures for academic purposes. Topics include: modals; conditionals: real and unreal; passive voice; comma splices and sentence fragments; sub- junctive tense.
Pre-requisite(s): CESL060G

CESL070R READING AND VOCABULARY DEVELOPMENT 7 **Credit 3**
This course is designed to develop advanced students' comprehension, inference, and synthesis skills. Topics include: tasks, responsibilities and evaluation of rubrics; making inferences about character traits; using contextual clues to decipher unknown words; recognizing tone and point of view; sequencing ideas in chronological order; reading critically, evaluating content, and comparing works; summarizing and synthesizing information about specific points.
Pre-requisite(s): CESL060R

CESL070W WRITING 7 **Credit 4**
This course emphasizes use of the writing process and advanced research strategies to generate, develop, organize, and produce critical and analytical essays and other forms of writing. Topics include: paraphrasing; initiating an essay, portfolio or short story; identifying types of research; research methods; theses and abstracts; analyzing data from research and sharing a final research document.
Pre-requisite(s): CESL060W

CESL080C BUSINESS ENGLISH 8 **Credit 4**
This course is designed to help students develop the language necessary to communicate effectively, orally and in writing in the workplace. Topics include: business correspondence; business documents; business communication issues in the workplace; the role of effective communication in developing important relationships in a business environment.
Pre-requisite(s): CESL070C

CESL080G INDIVIDUALIZED LEARNING 8 **Credit 4**
This course enables second language learners to engage in self-implemented academic and practical experiences outside the classroom. Practical experiences will enhance their knowledge of their host community and provide them with real-life opportunities for using English as a medium for communication.
Pre-requisite(s): CESL070G

CESL080R ACADEMIC READING 8 **Credit 3**
This course is intended to advance students' development of the reading process in preparation for college-level reading in English. Topics include: reading for pleasure; improving comprehension and critical thinking skills; expanding vocabulary; improving reading speed. Students chart their progress in terms of increasing their reading rate.
Pre-requisite(s): CESL070R

CESL080W WRITING AND RESEARCH 8 **Credit 4**
This course provides college-bound students with the skills, strategies, and procedures necessary for researching a topic and writing a well-organized and logical research paper while avoiding plagiarism.
Pre-requisite(s): CESL070W

CESL090 LANGUAGE INTERNSHIP 9 **Credit 4**
This practicum offers students the opportunity to gain valuable and practical knowledge that cannot be acquired in the classroom. It provides an opportunity to enhance English language skills in a professional environment that will prepare students for their present or future careers.
Pre-requisite(s): CESL050C or higher

CHEM0016 DEVELOPMENTAL CHEMISTRY **Credit 0**
This pre-university course, designed for students with no chemistry background who need to take General Chemistry: CHEM1015, provides the basic principles in chemistry. Topics include: units of measurement; states of matter; atomic theory and structure; chemical bonding; chemical reactions; the periodic table; acids and bases.
Pre-requisite(s): Integrated Science in high school

CHEM1015 GENERAL CHEMISTRY 1 **Credit 3**
CHEM1015 introduces students to the principles of chemistry. Topics include: states of matter, atomic theory and structure; the periodic table and periodicity; chemical bonding; molecular structures; intermolecular forces; chemical reactions; mole concept; stoichiometry; solutions; acids and bases; gas laws; for non-chemistry majors.
Pre-requisite(s): high school chemistry, or pass in CHEM0016
Co-requisite(s): CHEM1015L

CHEM1015L GENERAL CHEMISTRY I LAB **Credit 1**
This laboratory course is structured to incorporate experiments representative of material being covered in CHEM1015. It introduces methods and techniques of chemical experimentation related to the topics covered in lecture.
Co-requisite(s): CHEM1015

CHEM1025 GENERAL CHEMISTRY II **Credit 3**
This course is a continuation of CHEM1015 and covers the following topics: electrochemistry; reaction rates; equilibrium; thermodynamics; acid base equilibria; for non-chemistry.
Pre-requisite(s): CHEM1015
Co-requisite(s): CHEM1025L

CHEM1025L GENERAL CHEMISTRY II LAB **Credit 1**
This laboratory course is structured to incorporate experiments representative of material being covered in CHEM1025. It introduces methods and techniques of chemical experimentation related to the lecture topics.
Co-requisite(s): CHEM1025

CHEM1032 INTRODUCTION TO ORGANIC AND BIOCHEMISTRY **Credit 3**
This course introduces the fundamental concepts of organic chemistry and biochemistry allowing students to appreciate their impact on everyday life. Topics include: physical and chemical properties of: alkanes; alkenes; arenes; halogen derivatives; hydroxyl compounds: alcohols, and phenols; carbonyl compounds: aldehydes, ketones; carboxylic acids and esters; nitrogen compounds; and biomolecules: carbohydrates, proteins, and lipids; lab: introduction to methods and techniques of chemical experimentation related to the topics covered in lecture. Course specifics: for non-chemistry majors; laboratory required.
Pre-requisite(s): CHEM1015, CHEM1015L
Co-requisite(s): CHEM1032L

CHEM1032L INTRODUCTION TO ORGANIC & BIOCHEMISTRY LAB **Credit 1**
This laboratory course is structured to incorporate experiments representative of material being covered in CHEM1032. The purpose of the lab is to apply the principles being taught in the class in order to enhance a better understanding of subject matter.
Co-requisite(s): CHEM1032

CHEM1042 CHEMISTRY FOR ENGINEERS **Credit 2**
This course provides students with the knowledge of the principles of chemistry and their applications as applied to engineering. Topics emphasized are: states of matter; atomic theory and structure; chemical bonding; chemical reactions; stoichiometry; solutions; acids and bases; rates of reactions; thermodynamics; electrochemistry. Course specifics: for engineering majors.
Pre-requisite(s): MATH1014 or equivalent.

CHEM1151 FUNDAMENTALS OF CHEMISTRY **Credit 4**
Chemistry is the science that describes matter: its properties, the changes it can undergo and related energy conversions. Themes include: the foundation of all branches of chemistry; organic, inorganic, analytical, environmental, and biochemical. Topics include: states of matter: atomic theory and structure; the periodic table and periodicity; chemical bonding; molecular structures; intermolecular forces; chemical reactions; the mole concept; stoichiometry; solutions; acids and bases; and gas laws.
Pre-requisite(s): High School Chemistry
Co-requisite(s): CHEM1151L

CHEM1151L FUNDAMENTALS OF CHEMISTRY I LAB **Credit 1**
This laboratory course is structured to incorporate experiments representative of material being covered in CHEM1151. Experiments introduce methods and techniques used in chemistry, including qualitative and quantitative procedures applied to exploratory situations for topics covered in CHEM1151.
Pre-requisite(s): high school chemistry
Co-requisite(s): CHEM1151

CHEM1202 FUNDAMENTALS OF CHEMISTRY II **Credit 4**
This course is a continuation of CHEM1151 and covers the following topics: thermodynamics, electrochemistry; kinetics; equilibrium; phase and acid base equilibrium. This course is specific for Chemistry majors.
Pre-requisite(s): CHEM1151
Co-requisite(s): CHEM1202L

CHEM1202L FUNDAMENTALS OF CHEMISTRY II LAB **Credit 1**
This laboratory course is structured to incorporate experiments representative of material being covered in CHEM1202. Topics introduce methods and techniques used in chemical experimentation; and qualitative and quantitative procedures applied to exploratory situations for topics covered in CHEM1202.
Co-requisite(s): CHEM1202

CHEM1252 ORGANIC CHEMISTRY I **Credit 3**
This course introduces the fundamental concepts of organic chemistry, and allows students to appreciate their impact on everyday life. It focuses on the physical and chemical properties of: alkanes; alkenes; arenes; halogen derivatives; hydroxyl compounds: alcohols, and phenols; carbonyl compounds: aldehydes, ketones; carboxylic acids and derivatives; nitrogen compounds.
Pre-requisite(s): CHEM1151

CHEM2151 INORGANIC CHEMISTRY **Credit 4**

This 4-credit course describes the general physical and chemical trends in Period 3 elements and elements in Groups 0 to 8, as well as the chemistry and applications of Groups 0 to 8 elements. The physical and chemical properties of the first-row d-block elements (scandium to zinc) and their practical importance will also be studied.

Pre-requisite(s): CHEM1202

Co-requisite(s): CHEM2151L

CHEM2151L INORGANIC CHEMISTRY LAB **Credit 1**

This laboratory course is structured to incorporate experiments representative of material being covered in CHEM2151. It introduces methods and techniques of chemical experimentation related to the lecture topics.

Co-requisite(s): CHEM2151

CHEM2201 ORGANIC CHEMISTRY II **Credit 3**

This course advances students' understanding of organic chemistry by introducing them to reaction mechanisms of alkanes. Topics include common reactions involving: alkenes; arenes; halogen derivatives; hydroxyl compounds: alcohol, phenol; carbonyl compounds: aldehydes, ketones; carboxyl acids and derivatives: carboxylic acids, acylchlorides, esters; nitrogen compounds; polymerization.

Pre-requisite(s): CHEM1252

Co-requisite(s): CHEM2201L

CHEM2201L ORGANIC CHEMISTRY II LAB **Credit 1**

This laboratory course incorporates experiments supporting CHEM2201. Topics introduce elementary organic chemistry laboratory; and covers preparation, reactions and properties of representative organic compounds.

Pre-requisite(s): CHEM1252

Co-requisite(s): CHEM2201

CHEM2252 ANALYSIS AND DETECTION **Credit 3**

This is an introductory course to modern instrumental methods of quantitative analysis. It covers the theory and practical aspects of: thin layer chromatography; column chromatography; gas chromatography; electrophoresis; infra-red spectroscopy; mass spectrometry; nuclear magnetic resonance.

Pre-requisite(s): CHEM2201, CHEM2201L

CHEM2302 INDUSTRIAL AND ENVIRONMENTAL CHEMISTRY **Credit 3**

This course promotes awareness of protecting the environment and introduces possible methods of controlling pollution. It focuses on: types and sources of pollution; the impact of physical and chemical reactions on the environment; the influence of industrial processes on social and economic conditions; the impact of man’s activities on the environment; methods of control of atmospheric pollution; uses and effects of industrial products; water pollution. Course specifics: includes field trips and guest lectures.

Pre-requisite(s): CHEM1202 OR CHEM1025

CIVL1101 PROPERTIES OF MATERIAL I **Credit 2**

This course focuses on the properties of building materials they manufacture in factory and or on site, the selection of materials to satisfy performance requirements and the ability to identify and remedy defects encountered with materials. Examined are: Timber, Cement and aggregates.

Pre-requisite(s): NONE

CIVL1152 PROPERTIES OF MATERIAL II **Credit 2**

This course focuses on the properties of building materials they manufacture in factory and on site, the selection of materials to satisfy performance requirements, and the ability to identify and remedy defects encountered with materials. Examined are Concrete, Building stones, Board Materials and Sea Louts.

Pre-requisite(s): NONE

CIVL1202 ELEMENTARY SURVEYING I **Credit 3**

This course exposes students to various aspect of land surveying i.e. Linear Surveying, Angular Surveying, Leveling and setting out. In addition to the theoretical or classroom approach, practical tasks will be assigned to further enhance what has been taught in the classroom approach, practical tasks will be assigned to further enhance what has been taught in the classroom.

Pre-requisite(s): NONE

CIVL1252 MECHANICS **Credit 2**

This course examines basic concepts and calculations of the forces, reactions, moments and properties of structural materials. Topics include: concurrent coplanar forces; moments of forces; stress, strain, and elasticity; practical problems.

Pre-requisite(s): PHYS1041

CIVL2451 STRUCTURES I **Credit 4**

Principles of structure and structural systems, including stress, strain, elasticity, axial loading, bending, moment, force, section design of beams, foundations, struts & connection.

Pre-requisite(s): CIVL1252

CIVL2502 STRUCTURES II **Credit 4**

The purpose of this course is to introduce the technical knowledge of structures. Principles of structure and structural systems, including stress, strains, elasticity, axial loading, bending, moments, force, section, design, of beams, foundations, struts & connection.

Pre-requisite(s): CIVL2451

CIVT1202 INTRODUCTION TO SURVEYING MEASUREMENTS 1 **Credit 3**

Elementary surveying, including fundamentals of plane surveying; use and care of equipment. Covers accurate measuring of distance; theory and practice of leveling, angles and bearings; principles and use of transit; curves; stadia; and topographic and land surveying. Coordinated class, lab and field assignments.

CIVT 2251 SURVEYING MEASUREMENTS 2 **Credit 3**

This course continues to provide students with hands-on experience in the use of surveying equipment and surveying methodology. It emphasizes the following practical surveying applications: tape-transit traverse, staking boundary corners, transit-stadia-EDMI traverse, and topographic surveys.

Pre-requisite(s): CIVT1202

CIVT1502 STATICS AND STRENGTH OF MATERIALS **Credit 3**

Covers principles of statics, structural mechanics and effects of loads and loading on building elements and frames. Some major areas include materials, stress and deformation, properties of sections, gravity loads, shear and bending in beams, and stresses in columns.

Pre-requisite(s): MATH0151, PHYS0015

CIVT0401 SOILS AND FOUNDATION **Credit 3**

An introduction to soil mechanics. The origin and engineering characteristics of soil, soil classification systems, the strength of soil masses, control of structural embankments, and an introduction to the design of foundations.

Pre-requisite(s): NONE

CIVT 2501 HYDRAULICS **Credit 3**

The basics of fluid mechanics and their application to Civil Engineering Technology are considered. Fundamental concepts presented are fluid properties, specific weight, density, specific gravity, and absolute and kinematic viscosity. Major topic areas covered are resultant force and center of pressure on submerged surfaces, flow of liquids in closed conduits including pressure losses and pump requirements, flow in open channels and sewer design and flow and pressure measurement techniques.

Pre-requisite(s): NONE

CIVT 2521 – MATERIALS PROPERTIES - TESTING **Credit 3**

Application and properties of construction materials. The sampling, testing, and application of the physical properties of aggregates and Portland cement concrete; bituminous materials, metals, and wood.

CIVT 2601 STRUCTURES IN CONSTRUCTION 1 **Credit 3**

This course emphasizes the systematic application of equilibrium principles, commonly called statics, to parts and structures, including analysis of external forces as vectors, multi-force members, two dimensional trusses, and properties of cross-sectional geometry. Students will study internal forces, with associated material limits, of structures necessary to maintain equilibrium. They will also study effects of direct and shear loads in relation to material strength and deformation for simple structures and beams.

Pre-requisite(s): CIVT1502

CIVT 2652 STRUCTURES IN CONSTRUCTION01 **Credit 3**

This course emphasizes the systematic application of equilibrium principles, commonly called statics, to parts and structures, including analysis of external forces as vectors, multi-force members, two dimensional trusses, and properties of cross-sectional geometry. Students will study internal forces, with associated material limits, of structures necessary to maintain equilibrium. They will also study effects of direct and shear loads in relation to material strength and deformation for simple structures and beams.

Pre-requisite(s): CIVT2652

CIVT0993 INTERNSHIP **Credit 3**

Basic techniques of constructing highways and roads. Planning processes for road construction and an introduction into the layers and importance of each layer in road construction. Surveying for geometric alignment. Introduction to basic soil and slope stability as well as an introduction to the application of soil properties in the construction of roads and highways.

Pre-requisite(s): CIVT1401

CIVT 2552 HIGHWAY TECHNOLOGY (SOILS MECHANICS 1 **Credit 3**

Students in the workplace are expected to develop the basic knowledge and skills needed to complement

classroom learning. Standards of behaviour and performance normally found in a professional working environment are expected. The approved work position will provide the students with an opportunity to explore a business career. The work report should analyze an element of the work experienced by the student.
Pre-requisite(s): NONE

CIVT 2562 HYDROLOGY AND GIS **Credit 3**
Geographic Information Systems (GIS) is information in context. The ability to tie information to a spatial location is basis of GIS. GIS allows us to view, understand, question, interpret, and visualize data in many ways the reveal relationships, pattern, and trends in the form of maps, reports, and charts. In this class the student will learn how to use GIS and apply it to civil engineering and other related practices. Completing civil engineering projects involves skills in health, marketing, environmental studies, geography, natural resource management and many other disciplines. These skills will be developed by using GIS to perform analysis of spatial and tabular data in the field of civil engineering. This course is also an introduction to storm water management as it relates to the design of storm water conveyance systems, and ponds using various engineering tools.
Pre-requisite(s): CIVT2501

CJCY1014 INTRODUCTION TO CRIMINAL JUSTICE **Credit 3**
This foundational course covers the criminal justice system pillars (law enforcement, the courts, and corrections processes) individually and holistically.Students will be introduced to the components of, as well as critical issues within, the criminal justice system. This course also examines the nature, structure and social context of crime. Topics include: modern concepts of law, crime, the judicial process, punishment, and rehabilitation; administration of justice, law enforcement, and corrections history and practice; organization of criminal justice agencies; courts and criminal procedures; and comparative criminal justice.
Pre-requisite(s): ENGL0095

CJCY1024 INTRODUCTION TO CRIMINOLOGY & CRIMINOLOGICAL THEORY Credit 3
This comprehensive three credit course introduces students to the field of criminology and its theoretical foundations.The course includes a comprehensive survey of criminological theories from the psychological, sociological and criminological fields. It examines the theoretical underpinnings of various types of crimes and victimization. The course includes an examination of life course perspectives, development and substance abuse as it relates to crime. The course introduces students to the use and analysis of crime research and data in criminology.
Pre-requisite(s): ENGL0095

CJCY2015 CORRECTIONS **Credit 3**
This course introduces the student to the history, practices, and issues related to both the adult and juvenile correctional function in the criminal justice system. It examines concepts such as punishment, retribution, community correctional methods, recidivism, and rights of offenders. This course covers the theoretical frameworks of both historical and current practices and policies to corrections in crime and justice.
Pre-requisite(s): CJCY1014

CJCY2014 JUVENILE JUSTICE **Credit 3**
This course provides coverage of the juvenile offender, and the family courts in Belize, their clientele and the complexity of human services agencies and facilities that contribute to juvenile correctional intervention.

Pre-requisite(s): CJCY1014, CJCY1024

CJCY2105 POLICING **Credit 3**

This is a comprehensive course on policing. It examines the history of policing and its current role in the criminal justice system. The course also examines the powers of police officers, policing and the culture of the police department, focusing on Belize. Students will explore the organizational structure, administrative and political issues, community policing and common ethical issues.

Pre-requisite(s): CJCY1014, PLGL2062

CJCY2205 VICTIMOLOGY & VICTIMIZATION **Credit 3**

This course explores victimology, forms of victimization and the economic costs to victims. It examines the victims as a part of the criminal justice process, and the relationship between victim and offenders. In this course, students study costs and nature of victimization, victim's rights, compensation and reparations. It includes a comparison of past and contemporary victim responses by the criminal justice systems and society.

Pre-requisite(s): CJCY1014 & CJCY1035

CJCY3014 GANGS **Credit 3**

This course exposes the student to the historical, economic, social and political viewpoints associated with gangs, crime and violence both in Belize and globally. Students explore factors pertaining to gang members and gang victims. A special focus is given to gangs and drug trafficking as a part of organized crime.

Pre-requisite(s): CJCY1014

CJCY3024 ETHICAL ISSUES & DECISION MAKING IN CRIMINAL JUSTICE AND CRIMINOLOGY **Credit 3**

This course provides a critical examination of decision making of agents within the criminal justice system using concepts of morality and select theories to examine ethical issues in the scope of law and law enforcement, justice, and the offender. An analysis of crime, nature of right and wrong of offender and victim to develop a solid foundation for decision making in the criminal justice system. *Topics include: sentencing, (capital) punishment, rehabilitation, and official corruption, use of deadly force, discretion and deception by the police, liberty, suppression, crime control and justice.*

Pre-requisite(s): PHIL1014, CJCY1014 & CJCY1024

CJCY3105 FORENSIC CRIMINOLOGY **Credit 3**

An introductory course to fundamental concepts of forensic investigative and physical evidence examination methods and approaches. The course covers criminal investigations with a focus on legal systems and court processes. Students also examine the role of mental disorders and behavioural traits in varying forms of criminal offenses. A heavy reliance on research/evidence of current approaches in the criminal justice systems and attainment of justice.

Pre-requisite(s): CJCY1035, PLGL1011, CJCY1014

CJCY3205 RACE, GENDER, CLASS & CRIME/JUSTICE **Credit 3**

A multidimensional course that examines the influence of socially constructed factors such as race, class, ethnicity, gender on crime and justice. Students also explore the effects of crime on members of social groups in society, to understand cycles of crime. It examines the criminal justice system's response and treatment of minorities and the effect on justice.

Pre-requisite(s): CJCY1014, CJCY1035, CRIM1024

CJCY3025 LAW ENFORCEMENT & ADMINISTRATION **Credit 3**

This course uses management theories to examine the functions and functioning of law enforcement agencies at all levels. It studies the structure of law enforcement agencies and the mandates to maintain social order, and a review of the roles and responsibilities of administrative personnel. The policies guiding these agencies are considered. In the semester, students explore engagement with the public, offenders and victims, as well as discretion, corruption and select current issues.

Pre-requisite(s): MGMT1014, CJCY1014, CJCY1025

CJCY4015 CRIMINALISTICS AND CRIME ANALYSIS **Credit 3**

An introduction to the techniques and instruments used in analyzing crime scenes and physical evidence. Students will be introduced to crime scene investigation from arrival on scenes/access to physical evidence, crime scene processing, evidence collection, photographing evidence, laboratory based analysis, culminating in reporting. Students will learn methodologies, instruments and necessary tools for analysis.

Pre-requisite(s): CJCY3105, CJCY1024

CJCY4024 CRIME INTERVENTION & PREVENTION **Credit 3**

An examination of the theory, operation and evaluation of crime prevention as a function of the criminal justice system. This course reviews strategies, policies and law enforcement engagement to prevent crime. It further explores policies and strategies of early intervention as it relates to juvenile delinquency or first time criminal offenders.

Pre-requisite(s): PSYC3025, CJCY3025, CJCY3015

CJCY4025 OFFENDER TREATMENT & REENTRY **Credit 3**

A review of policies and legal right to mental health evaluation of the offender.This course examines the psychological or counselling treatment options in a global context, with a focus on Belize.It further explores the strategies employed by the criminal justice systems to support offenders upon re-entry to society.

Pre-requisite(s): CJCY1014, PSYC3025

CJCY4224 EMERGING ISSUES: TRAFFICKING, DOMESTIC VIOLENCE, RAPE & SEX OFFENSES, CYBERCRIMES **Credit 3**

A survey course which focuses on crime trends and events that have recently emerged as issues on local and global scale. The course will examine policies, strategies and social, political and economic factors which have contributed to the increased awareness, and effects of these issues.Topics may vary by semester but may include: rape and sex crimes, cybercrime, Human trafficking, organized crime/illicit drug trading, domestic violence, economic crimes, policing, terrorism, policy, corrections, or similar.

Pre-requisite(s): CJCY1014, CJCY1035

CMPS1014 INTRODUCTION TO COMPUTER STUDIES **Credit 3**

This course is designed to be an introductory computing concepts course. The intent of the course is to teach fundamental concepts, theories, and applications of computers, the basics of hardware, software, computer ethics, systems software, application software and the role of computing in society today. A software suite is used to create and edit text documents, spreadsheets, presentations and databases. There is also an internet component in the course. The course serves as the required computer literacy component of the general education curriculum.

Pre-requisite(s): NONE

CMPS1024 COMPUTER BUSINESS APPLICATIONS **Credit 3**

This course is designed for students majoring in Business Administration, who have gained knowledge of computers and data processing and the World Wide Web. The main objective of the course is to prepare students for the usage of multiple advanced application programs (such as, Word processing, Spreadsheet, Database, Presentation, and Web Development), and be able to apply the use of these applications in all aspects of learning. This course will also enable students to explore the internet and use the virtual learning environment, MOODLE.

Pre-requisite(s): CMPS1014

CMPS1131 PRINCIPLES OF PROGRAMMING 1 **Credit 3**

This course is intended primarily to teach students to analyze and solve problems effectively in computer programming. Topics include: Problem Solving - Analysis, Solution, Computer Algorithm; Programming Language Syntax & Semantics; Algorithm Design & Implementation using Conventional Programming Techniques; Data Types; Elementary Data Structures; Extensive Programming Activities Using Programming Languages, such as C or C++.

Pre-requisite(s): NONE

CMPS1134 Fundamental of Computing **Credit 3**

This course is an introduction to the fundamentals of Computer Science that will provide students with a foundation for future courses in Computer Science. The course is a broad survey of the discipline through topics that allow students to understand the capabilities of computer systems in terms of: the computer architecture; operating systems and computer networks; software and software development; data organization and visualization; and the potential of computing machines.

Pre-requisite(s): NONE

CMPS1211 HARDWARE FUNDAMENTALS **Credit 3**

This course is designed to provide students with the knowledge and technical skills of computer desktop and laptop installation, configuration, maintenance, upgrade, and networking. Using today's technology, students will be groomed into Computer Repair Professionals, and customer friendly technicians to meet the needs of local and global organizations. Topics include: An introduction to PC Repair, the Motherboard, System Components and configuration, Disassembly of Power, Troubleshooting, Memory, Storage Devices, Multimedia Devices, other Peripherals, Computer Design, Basic Operating System, Internet Connectivity and Networking.

Pre-requisite(s): CMPS1134

CMPS1171 INTRODUCTION TO DATABASES **Credit 3**

This course is designed to provide fundamental techniques and knowledge for data storage, retrieval, and analysis. Topics include Fundamentals of Database Management Systems and Database Design, encompassing Relational Model and Normalization, Database Design Using Normalization, Data Modeling and the Entity-Relationship Model, and Transforming Data Models in Database Designs. In addition, students will learn how to use SQL to perform data analysis on large datasets.

Pre-requisite(s): CMPS1131

CMPS1232 PRINCIPLES OF PROGRAMMING 2 **Credit 3**

This course is a continuation of CMPS11312 with emphasis on advanced programming structures and techniques Topics include: Arrays. Pointers. Strings. File Processing. Sorting and Searching. Extensive Programming Activities Using a Modern Programming Language, such as C or C++.

Pre-requisite(s): CMPS1131

CMPS2111 SYSTEMS ANALYSIS **Credit 3**

This course introduces project management techniques for technology implementation projects. Topics include: Structured Methodology to Specify System Requirements - Study and Practice. Evaluate Alternatives to Fulfill System Requirements. Design Systems that Meet Requirements. Introduction to Project Management Techniques for Technology Implementation. Managing the Ongoing Operation of Systems. Basic Concepts and Techniques used in Systems Analysis.

Pre-requisite(s): CMPS1171

CMPS2131 DATA STRUCTURES **Credit 3**

This course seeks to familiarize students with various data structures. Topics include: Abstract Data Types (ADTs). Implementation of Data Types as Data Structures Using Object-Oriented Programming. File handling. Static and Dynamic Data Structures. Recursion. Sorting and Searching methods. Elements of Trees and Graphs.

Pre-requisite(s): CMPS1232

CMPS2151 WEB DEVELOPMENT **Credit 3**

Students will learn how to develop a complete website and make it available on the Internet. Topics include: Development of Basic Web Applications - HTML and CSS. The HTTP Client/Server Protocol. Client and Server Scripting for Web Applications. Website Development and Posting on the Internet.

Pre-requisite(s): CMPS1232

CMPS2191 NETWORKING I **Credit 3**

This course aims at setting up a local area network and using a network Operating system. Topics include: An Overview of Networks, Hardware, Network Operating Systems, Protocols, Relation OSI Model. Practical Component - Set up a Local Area Network using a Network Operating System, such as Microsoft Windows Operating System.

Pre-requisite(s): CMPS1131, CMPS1212

CMPS1191 NETWORKING FUNDAMENTALS **Credit 3**

This course serves as an introduction to computer networks. Topics covered include: overview of networks, network topology, networking, network operating systems, the OSI reference model, the TCP/IP reference model, network security, and subnetting. Network design and lab exercises are also significant components of the course.

Pre-requisite(s): CMPS1211

CMPS2212 GUI PROGRAMMING **Credit 3**

Students learn the principles of designing and building graphical user interfaces. Topics include: Graphical User Interface (GUI) Programming. GUI Programming Languages Principles and Practice in Designing and Building GUIs. Advanced Programming Environments. IDE Tools. Event-Driven Programming. User Input Validation. Error Handling. User Interface Components Window Systems, Widgets, Windows, Buttons, Text-Boxes, Check-Boxes, Radio-Buttons, Menus, Icons, Status Bars, Dialogs.

Pre-requisite(s): CMPS2131

CMPS2232 OBJECT ORIENTED SYSTEMS DEVELOPMENT **Credit 3**

This course introduces students to the fundamentals of the object-oriented paradigm. Topics include: Fundamentals of Object-Oriented Programming. Features of the Object-Oriented Paradigm (Using A Modern Object-Oriented Programming Language) - Encapsulation, Inheritance, Polymorphism, and Exception Handling.

Pre-requisite(s): CMPS2131

CMPS2242 SYSTEMS PROGRAMMING & COMPUTER ORGANIZATION **Credit 3**
This course is designed to teach students to analyze and solve problems effectively in systems programming using Go. Topics include: Problem Solving – Analysis and Solution, Network Programming Fundamentals, and Concurrent Programming Concepts. The course emphasizes Algorithm Design and Implementation using Go's unique features, such as goroutines and channels, for concurrency and low-level networking. Students will explore Data Types, Elementary Data Structures, and Socket Programming while gaining hands-on experience through extensive programming activities. By the end of the course, students will have developed a solid foundation in Go and will be able to build a basic TCP server.
Pre-requisite(s): CMPS2132

CMPS2992 PROJECT **Credit 3**
This course allows students to engage in work that is immediately useful to a local establishment. Students provide service to the establishment by filling a need for computer expertise.
Pre-requisite(s): SOPHOMORE STANDING

CMPS3012 MANAGEMENT INFORMATION SYSTEMS **Credit 3**
This course is designed to provide techniques and knowledge for creating competitive business, managing global or local corporations, adding business value and providing useful products and services to intended customers. Topics include: Enterprise Applications. Systems for Supply Chain Management. Customer Relationship Management. Knowledge Management Systems. Digital Integration. Internet Technology.
Pre-requisite(s): CMPS1014, MGMT1014

CMPS3111 PROGRAMMING LANGUAGES **Credit 3**
This course involves the study of principles underlying the design and implementation of a variety of programming languages. Topics include: The Problem-Solving Process. Language Design. Lexical elements. Syntax and Semantics. Historical Survey of Languages. Types, Objects and Declarations. Expressions and Statements. Programs. Sub-Programs. Modules. Concurrency. Knowledge of Languages, such as C++, Pascal, Java, Visual Basic.
Pre-requisite(s): CMPS2232

CMPS3131 ADVANCED GUI PROGRAMMING **Credit 3**
This course is a continuation of CMPS242 which aims at the usage of graphical user interfaces. Topics include: User Interface Design, Prototyping And Implementation With GUI Emphasis. Software Usability Engineering. GUI Design Principles. Advanced Programming Environments, IDE Tools. Event-Driven Programming. User Input Validation And Error Handling. Toolkits And Application Frameworks For Building Graphical User Interfaces. User Interface Components.
Pre-requisite(s): CMPS2212, CMPS2232

CMPS3151 TELECOMMUNICATION **Credit 3**
This course provides an introduction to the basic concepts and techniques of telecommunication. Topics include: Signal, Signal Generation, Signal Transmission. Telecommunication - Radio Wave Systems, Cable Systems, Fiber Optics Systems. Modulation and Demodulation of Signals. Power Loss in Telecommunication Systems.
Pre-requisite(s): CMPS1191

CMPS4232 SYSTEM ADMINISTRATION **Credit 3**

This course explores the practical elements of computer based system administration. Topics include File Management System. User Management. Connectivity. Security. Troubleshooting. Archiving. Backup. Directory Services. Remote Administration. Access Control Lists.

Pre-requisite(s): CMPS2242, CMPS3171

CMPS3252 ALGORITHMS **Credit 3**

This course is designed to teach techniques for the design and analysis of efficient computer algorithms through theoretical backgrounds and examples of advanced methods and data structures. Topics covered include: Asymptotic Growth Analysis of Functions. Average and Worst Case Analysis. Sorting and Selection Problems. Advanced Search Trees. Graph Theory. Related Algorithms. Divide and Conquer. Greedy Programming Paradigms. Hashing. Complexity Classes of P, NP and NP-Complete.

Pre-requisite(s): CMPS2232, MATH3251

CMPS4131 SOFTWARE ENGINEERING **Credit 3**

This course focuses on how to develop software systems from scratch by guiding them through the development process and giving them the fundamental principles of system development with object-oriented technology using UML. It introduces the basic concepts and the modern tools and techniques of Software Engineering. It identifies the tools needed to understand and apply software engineering techniques to all types of human-made software systems. The course emphasizes the development of reliable and maintainable software via system requirements and specifications; software design methodologies including object-oriented design, implementation, integration, and testing; software project management, cost estimation models; life-cycle documentation; issues in software quality assurance and software maintenance. Software engineering (SE), or the engineering of large-scale systems, is key to achieving reliable, efficient, cost-effective products and services in diverse fields.

Pre-requisite(s): CMPS2232, CMPS3275

CMPS3162 ADVANCED DATABASES **Credit 3**

In this 15-week course, students will learn how to design, build, and deploy database-backed web applications using Golang for the back-end and React for the front-end. The course will cover both Server-Side Rendering (SSR) and Client-Side Rendering (CSR) approaches, giving students a comprehensive understanding of modern web development techniques. Students will gain hands-on experience in building scalable, secure, and performant applications without using a Golang framework. Topics include full-stack development, front-end design, back-end architecture, database integration and migrations, and strategies for scaling and securing web applications.

Pre-requisite(s): CMPS1171

CMPS4131 SOFTWARE ENGINEERING **Credit 3**

This course introduces concepts and techniques for all aspects of a software development project. Topics include: Principles and Methodologies of Systematic, Documented, Disciplined and Quantifiable Approaches to Planning, Analysis, Design, Development, Maintenance and Operation of Quality Software and Software systems. IEEE Standards for Software Engineering.

Pre-requisite(s): CMPS2171, CMPS2232

CMPS4251 COMPUTER NETWORK & SECURITY **Credit 3**

This course provides emphasis on countering threats to information as it travels from source to destination over a public internet. Topics include Service Mechanisms and Attacks. The OSI Security Architecture. A Model for a Network Security. Symmetric Ciphers. Block Ciphers and Data Encryption Standard. Finite Fields. Advanced Encryption Standard. Public Key Encryption and Hash Functions.

Digital Signatures and Authentication protocols. Authentication Applications. Electronic Mail Security. IP Security. Web Security. Intruders. Malicious Software. Firewall.
Pre-requisite(s): CMPS1232, CMPS 2191

CMPS4191 ADVANCED WEB TECHNOLOGIES **Credit 3**
This course focuses on current tendencies and technologies used in the development of web applications. Topics include Planning and Designing a Web Application. Implementing a Web Application using PHP, MySQL, PostgreSQL, Apache and AJAX.
Pre-requisite(s): CMPS2151, CMPS2171, CMPS2232

CMPS4175 ROUTING AND SWITCHING **Credit 3**
This course develops a working knowledge of routing, switching, network applications, protocols, and services. Topics include Static and Dynamic Routing Protocols, Distance Vector Routing Protocols, RIP, EIGRP, Link-State Routing Protocols, OSFP, ACLs, Switch concepts, VLANs, VTP, STP, Inter-VLAN routing, and Wireless concepts.
Pre-requisite(s): CMPS3171

CMPS4231 DIGITAL LOGIC AND DESIGN **Credit 3**
This course provides an in-depth examination of the basic components of digital circuits, and the underlying principles on which they operate. Topics include: Basic Components and Operating Principles of Digital Circuits. Basic Components - Logic Gates, Multiplexers, Demultiplexers, Encoders, Decoders, Arithmetic Circuits. Underlying Principles - Truth Tables, Boolean Algebra, Karnaugh Maps, Binary and Other Number Systems and Codes.
Pre-requisite(s): CMPS1211

CMPS4251 COMPUTER AND NETWORK SECURITY **Credit 3**
This course provides emphasis on countering threats to information as it travels from source to destination over a public internet. Topics include: Service. Mechanisms and Attacks. The OSI Security Architecture. A Model for a Network Security. Symmetric Ciphers. Block Ciphers and Data Encryption Standard. Finite Fields. Advanced Encryption Standard. Public Key Encryption and Hash Functions. Digital Signatures and Authentication protocols. Authentication Applications. Electronic Mail Security. IP Security. Web Security. Intruders. Malicious Software. Firewall.
Pre-requisite(s): CMPS1232, CMPS2191

CMPS4081 PRACTICAL ELECTRONICS **Credit 3**
CMPS4081 is an introduction to analog and digital electronic circuits. Students will gain knowledge in operating electrical instruments such as oscilloscopes, digital multi-meters, function generators, power supplies and logic analyzers. Students will be able to design and construct and/or solder several types of circuits.Students will also gain experience in using the different types of electronic components. In the semester project, students will design and implement a solution to a real-world problem.
Pre-requisite(s): CMPS1211

CMPS4181 MOBILE APPLICATION DEVELOPMENT **Credit 3**
This Mobile Applications Development course examines the principles of mobile application design and development, it is a hands-on course designed to provide students with the relevant skills needed to develop mobile applications as well as the knowledge of the issues surrounding the Mobile Platforms and SDKs including iOS/iPhone/iPad, Android, Nokia and Windows Mobile Phone. It also provides an opportunity to study various mobile applications that run on various mobile platforms as well as the Internet. Throughout the course, the students work on developing real-life applications on the android

platform; Eclipse, AppInventor, Android Studio and Android SDK are used as the development environment (IDEs) throughout the class.
Pre-requisite(s): CMPS3141 & CMPS3111

CMPS4221 SPECIAL TOPICS **Credit 3**
This course equips students with comprehensive skills in modern JavaScript (ES6+) and TypeScript to develop dynamic, interactive, and robust front-end web applications. Students will master core JavaScript concepts, asynchronous programming, browser APIs, and the WebSocket protocol for real-time communication. The course emphasizes writing clean, modular, and type-safe code using TypeScript, and effectively integrating front-end applications with backend services, such as those developed in the CMPS4191 course. The course culminates in a significant capstone project, preparing students for demanding front-end development roles.
Pre-requisite(s): CMPS4252

CMPS4991 SENIOR SEMINAR IN INFORMATION TECH **Credit 3**
Students investigate current and emerging information and communications technology. Students, faculty members and guest speakers research and make presentations on emerging methods, technologies and practices. Topics include but are not limited to: Programming, Internet, Web, Hardware, Database, Networks, Telecommunication.
Pre-requisite(s): AT LEAST 100 CREDITS COMPLETED

CMPS4992 PROFESSIONAL PRACTICE **Credit 12**
Students engage in work that is immediately useful to a local establishment. Students provide service to the establishment by filling a need for computer expertise.
Pre-requisite(s): SENIOR STANDING

CMPS5103 - TECHNOLOGY AND INFORMATION MANAGEMENT **Credit 3**
The goal of this course is to equip future managers with a thorough understanding of the information systems most relevant to their organizations. Additionally, they will develop a clear vision of technological trends in the development of systems, criteria and best practices within organizations as related to the management of technology. They will have an understanding of the role of information technologies and systems in the entrepreneurial process and be able to evaluate the impact of these elements in their organization, in society and in their own professional career.
Pre-requisite(s): NONE

CRIM1024 CRIME & DEVIANCE **Credit 3**
This course examines the nature of crime and deviance. Students will explore how a crime is defined, the historical development of interpretation of acts as criminal and deviant. It will examine the consequences and effects of crime.
Pre-requisite(s): SOCL1014

CRIM3014 GIS & CRIME **Credit 3**
A practical course to develop mapping crime and criminal activity. Students are trained in analysis of patterns using crime data.In this course, students will become familiar with ArcGis and geographic patterns of criminal activity.
Pre-requisite(s): CJCY1014, CJCY1035

CRIM3025 CRIMINAL INVESTIGATION **Credit 3**
An introduction to the procedures, tools and/or activities used by criminal investigators from before the

commission of crime through follow- up investigations and court appearances. This course explores crime prevention, interviewing witnesses and suspects, interrogation, collection and preservation of physical evidence for forensic analysis, crime scene analysis.
Pre-requisite(s): CJCY1014, CJCY1035

CRIM4024 MEDIA, CRIME & JUSTICE **CREDIT 3**
Students will explore the construction and representation of victims, offenders and the pillars of the justice system by the media (at large). The concepts of justice and crime in, and covered by, the media will be closely examined to understand its relationship with crimes, victims and society. Students can expect to review media portrayal and influence in understanding and perceiving crime, deviance, justice, punishment, policy, intervention and law enforcement agencies.
Pre-requisite(s): CJCY1035, CJCY2024

DRSH6995 MPHIL DISSERTATION **CREDIT 56**
This capstone course comprises four integrated components tailored to each candidate's research: Field Research I (proposal development, ethics/IRB and other approvals), Field Research II (implementation of approved research), Dissertation Writing, and Final Submission. Candidates must produce an original, theoretically grounded dissertation that addresses clear research questions, engages critically with relevant literature, and contributes new insight to their field.

ECED1051 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION **Credit 3**
This course provides a study of the guiding theories (theoretical, philosophical and social) perspective of ECE. It exposes student teachers to the values, ethical and legal issues and debates relating to ECE and the importance of becoming an advocate for children and families.
Pre-requisite(s): NONE

ECED1101 EARLY CHILDHOOD DEVELOPMENT AND BEHAVIOR GUIDANCE **Credit 4**
A study of the growth and development of children ages birth to eight years of age, the course examines factors that influence growth and development and the major developmental theories to explain how growth and development occur (i.e. physical, emotional, social, moral, and cognitive development.) This course also introduces Play from a developmental perspective as a vehicle for learning. The course places emphasis on age appropriate behavior expectations in young children and examines developmentally appropriate behavior guidance.
Pre-requisite(s): NONE

ECED1151 EARLY INTERVENTION FOR CHILDREN WITH SPECIAL NEEDS **Credit 3**
This course examines characteristics of the exceptional or special needs child. These exceptionalities include mental and behavioral differences, physical and sensory impairment and communication disorders. Student-teachers are assisted in understanding the needs of students with exceptionalities and helped to identify the instructional considerations and develop inclusion strategies for children with disabilities.
Pre-requisite(s): NONE

ECED2152 CURRICULUM, INSTRUCTION & ASSESSMENT IN THE EC CLASSROOM Credit 4
This course broadens student teachers' scope and knowledge on curriculum theories, assessment practices and methods related to planning and instruction of an early childhood curriculum. In this course, student teachers will explore the relationship between curriculum, instruction, and assessment.

Student teachers will examine different aspects of the early childhood curricula, choose developmentally appropriate classroom activities/strategies and examine various structures/practices and approaches for the delivery of early learning experiences. The importance of integrating play into the curriculum and its role in enhancing children's learning and development will be explored.
Pre-requisite(s): NONE

ECED2202 FOUNDATIONS OF LITERACY DEVELOPMENT in EC EDUCATION Credit 3
This course is designed to examine the basic elements of literacy development at the pre- & lower primary levels and how young children develop language abilities and acquire oral language skills. A study of: language acquisition theories; the nature & development of reading; and writing processes & competencies in the early years will be done.
Pre-requisite(s): LING1152

ECED2252 SCIENCE CONCEPTS and METHODS for the EC CLASSROOM Credit 3
This course examines pedagogy and related research on developmentally appropriate science practices for young children with emphasis on scientific inquiry and the application of scientific concepts and theories. Student teachers will explore principles, methods and materials for teaching pre-school and lower division primary children science concepts though discovery and play.
Pre-requisite(s): ESCI1151

ECED2302 LANGUAGE ARTS and LITERATURE FOR YOUNG CHILDREN Credit 3
This course presents an examination of teaching methods for Language Arts, and emphasizes literature enjoyment to enhance language development in young children. Student teachers will learn how to select developmentally appropriate stories, rhymes and poems and how to deliver effective activities for the enhancement of young children's language experiences. It exposes student teachers to a variety of techniques for promoting literacy in young children.
Pre-requisite(s): ECED2202

ECED2351 PRACTICUM: GENERAL Credit 1
This course is designed to provide student teachers with opportunities to observe and engage in reflective discussion of curriculum & instructional practices, school governance & organization, and school-community relationships.
Pre-requisite(s): NONE

ECED2352 PRACTICUM: PRESCHOOL Credit 1
This course is designed to provide student teachers with opportunities for application of concepts through field work with young children in preschools and families in the community.
Pre-requisite(s): NONE

ECED3351 PRACTICUM: LOWER PRIMARY Credit 1
This course entails a guided observation and participation in a lower primary classroom over a02 week period. Student teachers study how children's learning experiences can be influenced by social, emotional, intellectual and physical development.
Pre-requisite(s): NONE

ECED3451 CREATIVE EXPRESSION in the EC CLASSROOM Credit 4
This course focuses on young children’s exploration and creative expression in the areas of art, music, movement and dramatic play through process-oriented experiences. Emphasis is placed on developing strategies for using various open-ended media representing a range of approaches in creative thinking.

Student teachers will examine different aspects of the early childhood curricula, choose developmentally appropriate classroom activities/strategies and examine various structures/practices and approaches for the delivery of early learning experiences. The importance of integrating play into the curriculum and its role in enhancing children's learning and development will be explored.
Pre-requisite(s): NONE

ECED2202 FOUNDATIONS OF LITERACY DEVELOPMENT in EC EDUCATION Credit 3
This course is designed to examine the basic elements of literacy development at the pre- & lower primary levels and how young children develop language abilities and acquire oral language skills. A study of: language acquisition theories; the nature & development of reading; and writing processes & competencies in the early years will be done.
Pre-requisite(s): LING1152

ECED2252 SCIENCE CONCEPTS and METHODS for the EC CLASSROOM Credit 3
This course examines pedagogy and related research on developmentally appropriate science practices for young children with emphasis on scientific inquiry and the application of scientific concepts and theories. Student teachers will explore principles, methods and materials for teaching pre-school and lower division primary children science concepts though discovery and play.
Pre-requisite(s): ESCI1151

ECED2302 LANGUAGE ARTS and LITERATURE FOR YOUNG CHILDREN Credit 3
This course presents an examination of teaching methods for Language Arts, and emphasizes literature enjoyment to enhance language development in young children. Student teachers will learn how to select developmentally appropriate stories, rhymes and poems and how to deliver effective activities for the enhancement of young children's language experiences. It exposes student teachers to a variety of techniques for promoting literacy in young children.
Pre-requisite(s): ECED2202

ECED2351 PRACTICUM: GENERAL Credit 1
This course is designed to provide student teachers with opportunities to observe and engage in reflective discussion of curriculum & instructional practices, school governance & organization, and school-community relationships.
Pre-requisite(s): NONE

ECED2352 PRACTICUM: PRESCHOOL Credit 1
This course is designed to provide student teachers with opportunities for application of concepts through field work with young children in preschools and families in the community.
Pre-requisite(s): NONE

ECED3351 PRACTICUM: LOWER PRIMARY Credit 1
This course entails a guided observation and participation in a lower primary classroom over a02 week period. Student teachers study how children's learning experiences can be influenced by social, emotional, intellectual and physical development.
Pre-requisite(s): NONE

ECED3451 CREATIVE EXPRESSION in the EC CLASSROOM Credit 4
This course focuses on young children’s exploration and creative expression in the areas of art, music, movement and dramatic play through process-oriented experiences. Emphasis is placed on developing strategies for using various open-ended media representing a range of approaches in creative thinking.

Student teachers will explore developmentally appropriate experiences in art, music, movement and dramatics for young children. The relationship of creative experiences to the total educational program of young children, and as a tool for integrating the curriculum will be explored.
Pre-requisite(s): NONE

ECED3502 THE EMERGENT EC PRACTITIONER **Credit 3**
This course presents an exploration of the roles, functions and responsibilities of the Early Childhood Educator. It is aimed at having student-teachers gain the understanding of, and develop the commitment for the teaching of young children.
Pre-requisite(s): NONE

ECED3552 MATH CONCEPTS and METHODS for the EC CLASSROOM **Credit 3**
This course examines theory, pedagogy and related research on developmentally appropriate practices in math for young children with emphasis on a constructivist approach to learning. Student teachers will explore principles, methods and materials for teaching pre-school and lower division primary children math concepts though discovery and play.
Pre-requisite(s): EMAT1101

ECED3602 SOCIAL STUDIES METHODS for the EC CLASSROOM **Credit 3**
Social Studies is a multi-disciplinary course drawing concepts, methods, and content matter and skills from a variety of disciplines. The course will introduce and study peoples and institutions in nearby and faraway societies. Through participation in practical activities, student teachers will explore social systems and their impact on children's development and learning. Student teachers will reflect on and assess their own ability to interact meaningfully with children in the environment, learn effective communication strategies, discuss strategies for writing and achieving instructional objectives and identify and practice modes of teaching and learning.
Pre-requisite(s): HIST2014

ECED3653 FIELD EXPERIENCE for EC TEACHERS **Credit 9**
This is a02-week independent practical teaching experience in an early childhood school setting. Student teachers will manage a classroom independently, plan, organize, implement and evaluate classroom activities with supervision from qualified teacher education personnel. Student teachers will meet regularly with their supervisors and peers to discuss and share experiences and will be evaluated and graded following criteria and protocol outlined by the Belize Board of Teacher Education. Upon successful completion, student teachers should be able to demonstrate competence as a teacher of young children.
Pre-requisite(s): NONE

ECON1014 INTRODUCTION TO ECONOMICS **Credit 3**
This introductory general core course introduces, develops, and exposes students to the major forces that shape an economy. It generally examines resource use and allocation, problems, goals, and institutions of an economic system. Topics include: theory and policy in economics and how these affect economic problems and policy options; microeconomic concepts such as scarcity, demand and supply, price determination, and macroeconomic concepts such as GDP (national income analysis), unemployment and inflation.
Pre-requisite(s): NONE

ECON2015 PRINCIPLES OF ECONOMICS **Credit 3**
This is a first-level one-semester course intended as an initial introduction to the study of economics. At

the micro level, this course is designed to provide an understanding of basic microeconomic concepts and principles. The aim is for students to develop an ability to apply the concepts to real-world situations. Topics to be covered include supply, demand and market equilibrium, consumer behavior, production and cost, perfect and imperfect competition, antitrust policy and labor market. At the macro level, this course exposes students to contemporary issues in macroeconomic analysis and policy. It will also acquaint students with the distinctive features of small open economies, such as Belize, the wider Caribbean, Central America and North America. Topics to be covered include National Income, Aggregate Spending, Inflation, Unemployment, International Trade, Monetary Policy, Fiscal Policy and Balance of Payments.
Pre-requisite(s): MATH1014

ECON4015 MANAGERIAL ECONOMICS **Credit 3**
This senior level course reviews basic principles of microeconomics with emphasis on theory of the firm and demonstrates how economic theory and the application of quantitative tools and techniques of decision sciences facilitate and assist/inform managerial decision-making. Topics include: demand: regression techniques and demand estimation; demand theory and analysis; production theory; cost theory; pricing and output decision under different market structures; game theory as a strategic tool; pricing of goods and services; capital budgeting. Course specifics: re- quires case analyses.
Pre-requisite(s): ECON2054, MATH2025, MATH3042

ECON5152- GLOBAL BUSINESS & ECONOMICS **Credit 3**
This course prepares graduate students for operating and managing businesses in the international and global environment. The broad content themes include globalisation; theory of trade and investment; conducting business in different political, economic and socio-cultural systems; the impact of economic development and social change; the role of international law and international organisations and institutions; and the challenges of international security. Additionally, there is an extensive analysis of global economic issues such as the structure of markets, including perfect competition, monopoly and oligopoly, and the competitive regulatory environment. It also deals with the determinants of the aggregate level of output and employment, and elements in the determination of macroeconomic policy including interest rates, inflation and foreign trade and capital flows.
Pre-requisite(s): NONE

EDLD 5013 SCHOLARLY WRITING SEMINAR **Credit 4**
The scholarly writing seminar is a ten-week course, featuring lectures and writing tasks, that introduces students to conventions, problems, and techniques in academic writing at the graduate level. Students of any content area may take the course to develop foundational competence in communicating appropriately in writing at university. The course provides instruction and practice for writing effectively in any situation but specifically addresses the needs of University of Belize Master's students. Students learn to revise their writing and respond to the writing of others. They attend lectures covering a range of topics on writing, and complete associated writing assignments—in a progressive and cumulative way—that teach fundamental concepts of academic writing all students and scholars use: evaluating sources, summarizing and synthesizing research, attributing ideas properly, employing academic language effectively, situating the self, developing an academic style and authoritative tone, communicating ideas in clear and effective prose, and performing other key skills of academic argumentation.

EDLD 5021 FOUNDATIONS OF EDUCATIONAL LEADERSHIP **Credit 4**
The Foundations of Educational Leadership will introduce leaders to the concepts and principles of edu-

cational leadership. This course will provide learners with an overview of the roles of educational leaders and the impact of educational leadership on the society and educational system. Various theories and models on educational leadership and the impact to the individual, organization, and society will be explored within authentic school settings. This course will also provide opportunities for students to realize the moral and ethical dimension of school leaders.

EDLD 5022 TRENDS AND ISSUES IN EDUCATION SYSTEM

This course will immerse students in activities to examine both the historical and contemporary context of education in Belize, as well as to critically examine past and current policies and interventions aimed at improving education access, equity, quality and relevance. Students will analyze major legislative and policy documents such as the Education Act, Education Rules, strategic plans, and project documents to determine their implications for the governance, management and leadership of the education system. They will also be introduced to emerging trends, issues and imperatives in the region and globally and the potential of these movements to significantly influence the future direction of education in Belize. Students will also build their capacity to use education data and research for identifying emerging trends and for planning successful interventions at the national and institutional levels. Using an evidence-based framework, students will learn how to clearly define and quantify an education problem, identify possible causes of the problem, and select appropriate interventions. The aim is to help students build the necessary leadership competence to respond and develop into a more accountable leader who can contribute effectively to school and education sector reform.

EDLD 5031 CURRICULUM LEADERSHIP

The course Curriculum Leadership is designed to have participant-learners explore the diverse and often contentious field of curriculum studies. In this course, curriculum theory and practice are discussed within the broader socio-political context of education in Belize. Participant-learners will examine the work of educators and curriculum theorists, both past and present, who have contributed and/or continue to contribute to knowledge within the field. Participant-learners are encouraged to adopt a creative viewpoint when examining key issues and past reform efforts through new and alternative vantage points. On completion of this course, participant-learners will be equipped with the fundamental skills and knowledge needed to make significant contributions towards curriculum theory and practice within their professional environments.

EDLD5032 QUALITATIVE APPROACH TO RESEARCH

This course examines the philosophical and epistemological underpinnings of qualitative research in education. Major approaches to qualitative research, as they relate to educational leadership and critical analysis of their appropriateness and strengths to various research questions, will be explored. Students will gain hands-on experience in various qualitative methods and analysis techniques while carrying out a research project related to their area of interest.

EDLD 5041 LEADING EDUCATIONAL CHANGE

The Leading Educational Change course will prepare educational leaders to effectively facilitate and guide the change effort in their organizations.Educational leaders must exercise the strategic art of leadership in response to changing educational needs facing communities today and in the future. This course will prepare educational leaders to properly and in a timely manner assess their impact of change on their vision and seek to respond effectively to these changes.

EDLD5051 QUANTITATIVE APPROACH TO RESEARCH

This course will provide advanced training in quantitative research methods with topics designed for students to gain a deeper understanding of the concepts and principles of quantitative methodologies. Students will also acquire advanced skills in research in education, social sciences, and humanities. They will develop competence in quantitative techniques through authentic experiences in study design, data collection, and management, as well as the analysis and interpretation of data.

EDLD5052 FUTURE OF EDUCATION

Education is essential to social and economic development, especially for citizens in developing countries. The future is changing so dramatically and quickly that it poses more challenges for current educational leaders. They are educating students for the unknown. Hence, educational leaders need to explore the necessary changes and challenges that their educational systems are faced with now; and identify how innovation can be used to inform their future. In order to achieve a sustainable future for their community this course will help educational leaders explore the trends, issues and practices that impact the future of their educational systems.

EDUC1102 FUNDAMENTALS OF LINGUISTICS **Credit 3**

This course introduces the study of language. It explores concepts and theories of various areas of linguistics including phonology, orthography, morphology, etymology, syntax, semantics, and language acquisition. It examines the spoken and written forms of language varieties in Belizean and global context.

Pre-requisite(s): ENGL299

EDUC1402 TEACHING METHODS FOR PRIMARY CURRICULUM **Credit 3**

This course is designed to provide student-teachers with a variety of teaching skills and classroom experience to plan relevant learning situations and to engage learners at the primary level in meaningful learning tasks. Topics include Usage of the National Curriculum; Design of Instructional Aids; Utilization of Inductive and Deductive Models of Teaching; Planning, Implementing, and Assessing of Student Learning.

Pre-requisite(s): ENGL111

EDUC2021 CHILD DEVELOPMENT **Credit 3**

This course is designed to introduce students to the theories of child development and how they can be used when planning instruction, developing learning environments, and modeling social behaviors. Topics include: major theories of development: pre-natal to adolescence; biological context of growth and development; social, cultural and economic influences on the developing child.

Pre-requisite(s): PSYC221

EDUC2151 MANAGING THE REGULAR & MULTI-GRADE CLASSROOM **Credit 3**

This course introduces students to the basic application of classroom management and organization. Significant attention is placed on preparing students to plan, manage and teach in multi-grade classrooms. Topics include: organizing the learner and the learning environment; classroom discipline; individualized instruction; the psycho- social environment in regular and multi-grade classrooms; lesson management; classroom management skills; time- tabling and scheduling.

Pre-requisite(s): EDUC222

EDUC2224 TEACHING METHODS FOR SECONDARY CURRICULUM **Credit 3**

This course covers various teaching methodologies at the secondary educational levels and provides pre-service teachers with guidelines to engage students in interactive learning, develop a range of instructional plans, instructional materials, learning centers, and general guidelines for organizing and managing a classroom.

Pre-requisite(s): ENGL111

EDUC2995 INTERNSHIP **Credit 9**

This course consists of one semester of student teaching under the guidance of a UB supervisor. Internship is a period that should promote an understanding of personal, interpersonal, academic and ethical requirements of the teaching profession. Interns will focus on developing their skills in planning, instruction, assessment, communication, classroom management and professionalism.

Pre-requisite(s): Second Year APRE with no courses in Education remaining

EDUC3101 SOCIAL CONTEXT OF SCHOOLING **Credit 3**

This course orients students to the definition, origin and purpose of schooling. Topics include: the role of stake- holders in education; the role of school in the socialization process; education and culture; social class and poverty; education and race, gender and special needs; multiculturalism; social problems and the school; alternative perspectives: problems and possibilities.

Pre-requisite(s): SOCL221

EDUC3103 EARLY CHILDHOOD EDUCATION **Credit 3**

This course is designed as an introductory course to Early Childhood Education (ECE) for BPRE students. It is assumed that participants have completed courses in Child Development Principles and have gained a basic knowledge of teaching. The major focus will be on teaching children from three to eight years.

Pre-requisite(s): EDUC102, EDUC222

EDUC3111 INTRODUCTION TO THE PRIMARY CURRICULUM **Credit 3**

This course explores the theoretical framework and the components of a school curriculum and provides students with practical strategies to foster the integration of the nine areas of study in the National Comprehensive Primary School Curriculum. In addition to the conceptual knowledge of curriculum philosophy and innovative practices, students will design, plan, micro-teach and evaluate integrated lessons and units of work.

Pre-requisite(s): EDUC222

EDUC3141 INTRO TO CURRICULUM DEVELOPMENT **Credit 3**

This course provides secondary educators with an understanding of the myriad of curriculum alternatives and strategies for developing a broad and balanced school based curriculum that combines theoretical perspectives with philosophical orientation to the National Secondary School Curriculum, and the Regional Subject Specific Curriculum. Topics include: curriculum designs and structures; perspectives and the philosophical orientation of curriculum; forces and change agents that affect curriculum content and process; basic tasks of curriculum development; forms of curricula organizations; integrating technology in the curriculum; implementing & evaluating a curriculum.

Pre-requisite(s): EDUC222

EDUC3153 EDUCATIONAL LEADERSHIP AND ADMINISTRATION **Credit 3**

This course introduces students to administration by analyzing theories and practices of educational leadership. Students will develop a theoretical framework that can be used to guide the evaluation of

leadership within a variety of contexts and to plan for the development and maintenance of effective schools. Topics include: politics, policy and governance; leadership and administration; strategic plan development; motivational theories and community relations; analysis of school effectiveness & implementation of changes; roles & responsibilities of the effective instructional leader; supervision/evaluation & personal administration; special issues; controversy/conflict resolution.
Pre-requisite(s): EDUC306

EDUC3201 HISTORY AND DEVELOPMENT OF EDUCATION IN BELIZE **Credit 3**
This course focuses on the theory and evolution of education in Belize. Topics include: a survey of Western and Occidental educational history; education in contemporary Belize; the origin of the Church/State educational system; history and role of the Teachers Union; first Belizean schools, the evolution of the denominational system, the Educational Acts of0850-1991, Primary Educational Rules, the Easter-Dixon Report (1935-1961), The A&R Diagnostic Report (1965-2005), secondary schools and teacher training; educational development; history of tertiary education in Belize.
Pre-requisite(s): ENGL111, GSTU101, HIST201

EDUC3252 INTRODUCTION TO GUIDANCE AND COUNSELING **Credit 3**
This course provides an overview of the History and the Current Status of Guidance & Counseling with focus on: ethical issues and diverse populations; approaches to individual counseling; group counseling; special counseling.
Pre-requisite(s): PSYC221

EDUC3302 INSTRUCTIONAL TECHNIQUES IN EDUCATION **Credit 3**
This course provides students with theoretical background and a variety of skills to teach using a repertoire of instructional practices. Through the use of reinforcements, micro-teaching and in-class activities teachers will use inductive and deductive teaching models to develop skills in instructional planning, teaching and assessment. This course also addresses curriculum problems, standards, and strategies most appropriate to the elementary and secondary school curriculum.
Pre-requisite(s): EDUC222, EDUC305, EDUC311

EDUC3403 PSYCHOLOGY OF LEARNING **Credit 3**
This course examines the principles of psychology as they apply to teaching and learning. It addresses the concepts of classroom and behavior management, learning theory and motivation, individual differences, self-concept, discipline, intelligence, and memory. This course will assist teachers in creating effective learning environments in the classroom and in assisting students with behavior problems.
Pre-requisite(s): PSYC221, EDUC222

EDUC3451 PHILOSOPHY OF EDUCATION **Credit 3**
This course exposes students to the philosophical foundations of education in Belize. Topics include: philosophy and education; basic philosophical issues; traditional and modern philosophies; theories and education; personal educational philosophy; educational philosophies in Belize; Christian education: Jesus, the master teacher; education for critical consciousness; the courage to teach: reflections from Parker Palmer.
Pre-requisite(s): ENGL112

EDUC3453 CLASSROOM ASSESSMENT **Credit 3**
This course provides students with an understanding of the principles of traditional and alternative forms of assessment, and contrasts them with each other. It focuses on skills needed to develop a variety

of assessment tasks thus ensuring high quality assessment and explores the taxonomies of learning when preparing assessment instruments. The course promotes critical and analytical thinking when reporting students' performance. Topics addressed are: motivation and testing; academic motivation; developing a framework for authentic learning; understanding assessment methods; assessing problem-solving strategies; assessing for deep understanding, genuine achievement, collaborative skills and self-determination.
Pre-requisite(s): EDUC222

EDUC3454 INSTRUCTIONAL TECHNIQUES IN EDUCATION **Credit 3**
This course provides the learner with theory and hands-on practical training in instructional technology, equipping them with knowledge of current and emerging educational technology. Students are given an overview of the various forms of technology that can be integrated into the primary and secondary curriculum. The course focuses on the use of educational technology in various subject areas and targets technology in education from a management, research, and pedagogical perspective.
Pre-requisite(s): CMPS1014, EDUC2224 or EDUC1402

EDUC3552 ADOLESCENT PSYCHOLOGY **Credit 3**
This three-credit course focuses on adolescent research and development theory. Topics addressed are: biological and physical development; intellectual and cognitive development; moral and personality development of the adolescent. Emphasis is placed on understanding the complexities of gender and sexuality, relationships and peer pressure.
Pre-requisite(s): PSYC221

EDUC3905 FIELD EXPERIENCE 1 **Credit 3**
This course provides for the development of a variety of teaching skills to engage learners in a number of meaningful learning tasks. Through practical teaching and in-class activities, teachers will use inductive and deductive models of teaching to facilitate planning for instruction and assessment of learning. EDUC351 also allows students to observe exemplary teaching and to engage in reflective inquiry of teaching practices. Topics include: personal philosophical orientation; importance of instructional planning; development of teaching resources; cooperative learning strategies; purpose and principles of assessment; strategies for classroom management; the portfolio; class observations and analysis. Course specifics: practical experiences are assisted by a cooperating teacher.
Pre-requisite(s): EDUC222, EDUC345

EDUC4201 RESEARCH METHODS IN EDUCATION **Credit 3**
This course gives student teachers the opportunity to apply the skills developed in research methods. Under the guidance of a UB supervisor the student implements a research study and produces a detailed report of the research process and its findings. Students focus on developing their research skills.
Pre-requisite(s): ENGL112

EDUC4256 MEASUREMENT AND EVALUATION **Credit 3**
This course focuses on the principles of classroom measurement and testing, test planning and construction, scoring and grading examinations, test analysis and statistics. It analyzes the influence of assessment on cognitive tests, and addresses the various types of traditional tests. Test validity and reliability, assessing children with special needs and evaluating and reporting learner performance are also emphasized.
Pre-requisite(s): EDUC323, EDUC345

EDUC4301 CONTENT AREA READING **Credit 3**

This course examines approaches and materials for reading instruction. Topics include: reading and comprehension processes; activating and building background knowledge; factors related to reading disabilities; procedures for conducting an oral reading analysis; design of appropriate materials for the classroom; teaching micro, macro, integrative, elaborative, and meta-cognitive processes.

Pre-requisite(s): EDUC222

EDUC4855 PREDIRECTED TEACHING SEMINAR **Credit 3**

This course provides Bachelors in Primary Education students the opportunity to combine theory and hands-on practice to analyze real classroom experiences and practices in preparation for final assessment/internship. Topics include: duties of the teacher; effective teaching; guidelines for writing a detailed lesson plan; writing performance objectives; cooperative learning; teaching strategies; effective questioning; educational resources; classroom management; alternative forms of assessment; learning centers.

Pre-requisite(s): EDUC323, EDUC305/311

EDUC4995 INTERNSHIP **Credit 9**

This course consists of one semester of student teaching under the guidance of a UB supervisor. The Field Experience II is a period that should promote an understanding of personal, interpersonal, academic and ethical requirements of the teaching profession. Interns will focus on developing their skills in planning, instruction, assessment, communication, classroom management and professionalism.

Pre-requisite(s): SENIOR STANDING With no courses in Education remaining

EENG2151 LANGUAGE METHODS FOR PRIMARY SCHOOL TEACHERS I **Credit 3**

This course develops student-teachers' understanding of how children learn language and examines language learning implications for the teaching of language arts within the context of a multilingual society. Teachers explore strategies and develop language skills to capitalize on the interrelatedness of these processes. ENED220 also builds an awareness of the techniques and devices used in the processes of language teaching that students will apply in the classroom and allows children to be actively involved in thinking and communicating.

Pre-requisite(s): ENGL112

EENG2202 LANGUAGE METHODS FOR PRIMARY SCHOOL TEACHERS II **Credit 3**

This course develops student-teachers' understanding of how children learn language and examines language learning implications for the teaching of language arts within the context of a multilingual society. Teachers explore strategies and develop language skills to capitalize on the interrelatedness of these processes. ENED220 also builds an awareness of the techniques and devices used in the processes of language teaching that students will apply in the classroom and allows children to be actively involved in thinking and communicating.

Pre-requisite(s): ENGL2151

EENG3851 ENGLISH METHODS **Credit 3**

This course fosters pedagogical skills in students who want to teach English at the secondary level and focuses on reading, writing, speaking, and listening. Topics include: an overview of language teaching methodology; introduction to second language acquisition theories and practices: linguistic psychology and language teaching; principles of language learning; providing input for acquisition: the role of first language acquisition in second language development; teaching the four language skills: listening, speaking, reading, writing; modeling teacher strategies: practice teaching; error analysis; writing practice and analysis; literacy and language development; teaching gram- mar; teaching of composition;

reading and writing as processes.
Pre-requisite(s): EDUC222

ELEC1101L ELECTRICAL WORKSHOP (PRACTICE) I **Credit 1**
The purpose of this course is to apply the theory studied in electrical and electronics so that students can develop practical skills required by the industry.
Pre-requisite(s): NONE

ELEC1152L ELECTRICAL WORKSHOP (PRACTICE) II **Credit 1**
This course will provide the students with basic practical hands-on experience in electrical installation and electronic engineering work with particular emphasis on Health and Safety.
Pre-requisite(s): ELEC1101L

ELEC1401 ELECTRICAL ENGINEERING SCIENCE I **Credit 3**
The purpose of this course is to provide students with the knowledge needed to analyze, troubleshoot, repair, maintain and design electrical systems
Pre-requisite(s): NONE
Co-requisite(s): MECH1451

ELEC1401 ELECTRICAL ENGINEERING SCIENCE II **Credit 3**
The purpose of this course is to familiarize students with single-phase systems, motors and generators and to also give them an introduction to analogue and digital electronics.
Pre-requisite(s): ELEC1401
Co-requisite(s): MECH1451

ELEC2101L ELECTRICAL WORKSHOP (PRACTICE) III **Credit 1**
This course allows students to apply theory in electrical studies and electronics to develop practical skills required by industry. Topics include: diode; ohmmeter; half-wave rectifier circuit; full-wave rectifier; full-wave bridge rectifier; circuit limiters; logic circuits; transistors: characteristics, applications, biasing; operational amplifier. Course specifics: site visits to radio stations, TV stations, BEL (SCADA) required.
Pre-requisite(s): ELEC1401L & ELEC1452L

ELEC2152L ELECTRICAL WORKSHOP (PRACTICE) IV **Credit 1**
The purpose of this course is to apply the theory studied in electrical science and the electronics and systems so that students can develop his/her skills needed in industry.
Pre-requisite(s): ENG267/ ELEC2101

ELEC2201 ELECTRONICS AND SYSTEMS I **Credit 2**
The purpose of this course is to provide students with a basic knowledge and understanding of electronics technology in order to acquire the basic skills necessary to repair, maintain and design of electronics equipment
Pre-requisite(s): NONE

ELEC2252 ELECTRONICS AND SYSTEMS II **Credit 2**
The purpose of this course is to furnish students with advanced knowledge in electronics theory and practice.
Pre-requisite(s): ELEC2201

ELEC2301 MEASUREMENT AND INSTRUMENTATION I **Credit 2**
To give a basic background to engineering instrumentation and measurement, which is appropriate to technicians and out of which more specialized studies may be developed.
Pre-requisite(s): NONE

ELEC2352 MEASUREMENT AND INSTRUMENTATION II **Credit 2**
To give a basic background to engineering instrumentation and measurement, which is appropriate to technicians and out of which more specialized studies may be developed.
Pre-requisite(s): ELEC2301

ELEC2401 ELECTRICAL ENGINEERING SCIENCE III **Credit 3**
The purpose of this subject is to provide students with advanced knowledge needed to analyze, troubleshoot, repair, maintain and design electrical systems.
Pre-requisite(s): ELEC1452

ELEC2452 ELECTRICAL ENGINEERING SCIENCE IV **Credit 3**
The purpose of this subject is to familiarize students with advanced knowledge of analogue and digital electronics, motors and generators.
Pre-requisite(s): ELEC2401

EMAT1101 COLLEGE MATH FOR PRIMARY SCHOOL TEACHERS I **Credit 3**
Topics include: number theory; number and numeration; measurement; sets; shape and space; statistics and probability; problem solving.
Pre-requisite(s): NONE

EMAT1152 COLLEGE MATH FOR PRIMARY SCHOOL TEACHERS II **Credit 3**
The purpose of this course is to help teachers become effective facilitators in the elementary school mathematics classroom, and to develop confidence and competence in their ability to learn and teach mathematics. Topics include: equations; simple relations and functions; algebra and logic; polygons; statistics; probability.
Pre-requisite(s): NONE

EMAT2151 MATH CONCEPTS AND METHODS FOR PRIMARY GRADES I **Credit 3**
The purpose of this course is to provide opportunities for pre-service teachers to examine their understanding of various mathematics topics and to construct a vision of mathematics that considers the goals and the assumptions of the current reform movement in mathematics education. Pedagogical approaches and development of materials for the teaching of mathematics focusing on the problem solving approach are explored.
Pre-requisite(s): EMAT1101

EMAT3352 MATH CONCEPTS AND METHODS FOR PRIMARY GRADES II **Credit 3**
This course exposes students to strategies and techniques for teaching the topics in upper primary and lower high school. Areas to be covered include material development and strategies to teach specific topics such as area, volume, graphs, the use of calculators, and use of models in the classroom. Topics include: content, pedagogical approaches and development of materials for teaching of elementary mathematics with a focus on problem solving, geometry, measurement, and probability and statistics.
Pre-requisite(s): EMAT2151

EMAT4851 MATH METHODS **Credit 3**

This course provides an introduction to the teaching of Mathematics at the Secondary schools. Topics include: elements of teaching methods: objectives, teaching strategies; unit planning; lesson planning; the intellectual development of students; classroom questioning; motivation; teaching concepts and generalizations; education technology; classroom management; student progress. Peer-Micro Teaching, Research, and Classroom Observation is required.

Pre-requisite(s): EMAT3352

ENGL0090 PRE-COLLEGE ENGLISH I **Credit 0**

This course is designed for students who have not met the ATLIB English entry requirement or UB's Placement Examination. This course targets the development of accepted students' basic mechanical and expressive skills (word choice, grammar, punctuation, sentence structure). This course introduces content (explaining or arguing, using supporting ideas) and organization (focus, paragraphing, transitions).

Pre-requisite(s): NONE

ENGL0095 PRE-COLLEGE ENGLISH II **Credit 0**

This course continues the reading based approach of Pre-College English I and serves to further build students' competencies in English to successfully complete academic courses at the university level. This course continues the development of basic mechanical and expressive skills (grammar, punctuation, sentence structure, etc.). It continues the development and organization of paragraphs (explaining or arguing, types of supporting details, focus, topic sentences, transitions, etc.), now focusing on the development into the computer essay (the expository essay is the focus).

Pre-requisite(s): ENGL0090

ENGL1014 COLLEGE ENGLISH 1 **Credit 3**

This course develops students' expository, descriptive, and narrative writing skills. Argumentation is introduced via a debate and a written paper. Emphasis is on topic selection and development of thesis statements across the four types of writing. Topics include: audience analysis and purpose of writing; thesis: support and development; editing and revision with some grammatical review work. An introduction to both MLA and APA documentation formats is also presented.

Pre-requisite(s): ATLIB ENG pass or ENGL090

ENGL1025 COLLEGE ENGLISH 2 **Credit 3**

This course develops literary interpretation, argumentation and research techniques, building on the critical reading techniques and writing and organizational strategies introduced in English011. It discusses ways in which literature (poetry, articles, short stories, books) may be used in literary analysis. It further develops citation procedures and incorporates source material in an 8 10-page research paper.

Pre-requisite(s): ENGL111

ENGL1035 COMPOSING PROCESS **Credit 3**

This course focuses on developing critical thinking skills through exploratory writing, literary analysis, and argumentative writing culminating in the writing of an 8-10 page research paper, journal writing, and a portfolio. This course combines the methods of an advanced composition course with substantial reading in the research and theory of the writing process and exposure to different writing styles and techniques.

Pre-requisite(s): ENGL1025

ENGL1107 GRAMMAR AND USAGE **Credit 3**

This course provides an intensive study of the English language with emphasis on grammar and usage. Topics include: parts of speech; the sentence; common sentence faults; usage: verb, pronoun, adjective, adverb, special; agreement: subject-verb, pronoun-antecedent; punctuation and mechanics; application.

Pre-requisite(s): NONE

ENGL2105 COMMUNICATION SKILLS **Credit 3**

This course builds students' awareness of the various factors impacting communication with the aim of enhancing their own communication skills and strategies. Topics include: the communication model; the process of human communication; communicative contexts; small group communication; perception and communication; verbal messages; non-verbal messages; listening feedback activities; communication and relationships; conflict and negotiation; ethics and communication; intrapersonal communicative strategies; interpersonal communication; intercultural communication; organizational communication; public communication; mass communication.

Pre-requisite(s): ENGL112

ENGL3105 LANGUAGE AND COMMUNICATION **Credit 3**

This course focuses upon developing listening, speaking, verbal and non-verbal interaction. Topics include: defining communication; basic functions of language; interview skills; public speaking; English-Kriol communication scenario based on CXC-CAPE Language and Community sub-units. Course specifics: requires individual and group presentations.

Pre-requisite(s): NONE

ENGL3155 TECHNICAL WRITING **Credit 3**

This course focuses on the means by which effective communication occurs in contemporary organizations including the collection and analysis of information. Topics include: language and audience; the communication process: message effectiveness; communication: skills, behavior; collaborative writing; messages: planning, organizing, developing; business correspondence: the resume, letters, memorandums; planning and conducting research; writing reports and proposals; MLA formats; interview; use of technology.

Pre-requisite(s): ENGL299

ENGL3301 READING STRATEGIES for MULTILINGUAL CLASSROOMS **Credit 3**

This course examines the socio-linguistic, psychological, philosophical, and socio-cultural needs of students that teachers encounter with the growing diversity that exists in today's classroom. This course focuses on bilingual competence and implications for learning and instruction in multi-lingual education. Students will be exposed to effective instructional practices to create meaningful learning experiences that enhance the knowledge and skills in reading and comprehension, and other structures of the content area.

Pre-requisite(s): EDUC212

ENGL3312 CHILDREN'S LITERATURE **Credit 3**

In this course children's literature is defined and differentiated. Topics include: the making of a reader; overview of genres: evaluation of children's books; literary elements; picture books: the art of illustration; evaluating traditional literature; sharing literature through oral reading; literature as exploration; Belizean literature; novel analysis; port- folios and references.

Pre-requisite(s): NONE

ENGL4151 ADVANCED TESOL **Credit 3**

This course explores language policy, curriculum development and TESOL. Topics include: second language acquisition/bilingualism; the national curriculum: critical appraisal of content and methodology recommendations; listening for meaning; speaking: teaching pronunciation; reading: reading pedagogy, principles in the ESL reading classroom; grammar/mechanics; language experience in Belize: an approach to teaching reading.

Pre-requisite(s): ENGL112; ENGL215

ENVR1151 ENVIRONMENTAL SCIENCE I **Credit 3**

This course provides an introduction to environmental science. It is taught as a multi-disciplinary subject with emphasis on the scientific and social science components of environmental science. In addition, it is taught at such a level that non-science majors can grasp the major concepts and principals. The course introduces students to most aspects of environmental science–the social, biological and economic. The course includes an introductory level coverage of components of ecology and the study of various environmental issues. Some main objectives of the course are for students to become familiar with basic ecological definitions and current environmental issues and for them to have a good grasp of the concept of sustainability.

Pre-requisite(s): High School Biology

ENVR1162 ENVIRONMENTAL SCIENCE II **Credit 3**

This course is a continuation of ENVR1151. It covers various aspects of environmental science–social, biological and economic. One of the main objectives of this course is that, along with ENVR0151, it provides the essential background needed for any student interested in continuing on to some environmentally related field. Some general aims of these courses are: to stimulate interest in the environment; to develop an understanding of environmental issues and principles; and for students to understand the interactions between people and the environment. This course specifically deals with pollution, sustainable energy use and sustainable agriculture.

Pre-requisite(s): ENVR1151

EPHY2153 PHYSICAL EDUCATION **Credit 3**

This course focuses on wellness, nutrition, and the benefits of exercise. Topics include: Compulsive Exercise. Exercise Options. Eating and Types of Muscles. Lesson Plan Preparation for PE Class. Dehydration, Nutrition, Heat Exhaustion. Weight, Nutrition and Safety. Track and Field. Aerobic vs. Anaerobic Exercise. Sports: Football, Softball, Basketball, and Volleyball.

Pre-requisite(s): EDUC222, SCIE150

ESCI1151 SCIENCE FOR PRIMARY SCHOOL TEACHERS **Credit 3**

This course is designed to prepare students with a content background to teach the primary level science curriculum. The topics include: organisms: origin of species; human population control; flow of energy; lower life forms: viruses, bacteria, fungi, protists; body systems: immune, reproductive, circulatory, digestive; balanced and unbalanced diets; materials: matter, water, air, soils; energy: light, simple machines, heat energy. Course specifics: a field trip and use of everyday materials for laboratory work are required.

Pre-requisite(s): NONE

ESCI2152 SCIENCE METHODS FOR PRIMARY TEACHERS **Credit 3**

This course is designed to equip the students with the knowledge and understanding of how children learn science so that they can effectively plan, deliver, assess, and evaluate elementary science lessons. Topics include: background for teaching elementary science; mental development and primary science;

scientific process; effective science teaching; assessment of science learning; integration of other disciplines; science for all students; resources for science teaching and professional development; Course specifics: a field trip is required.
Pre-requisite(s): SCIE150

ESCI4051 SCIENCE METHODS **Credit 3**
This course is designed to equip students with the knowledge and understanding of how adolescents learn science including the skills and methodologies to effectively plan, deliver, assess, and evaluate science lessons. Topics include: background for secondary instruction; mental development and secondary science; processes of science; effective science teaching (including laboratory management); assessment of science learning with a focus on School Based Assessments (SBA's); science and other disciplines; science for all students; resources for secondary science teaching; professional development. Course specifics: a field trip and use of everyday materials for laboratory work are required.
Pre-requisite(s): EDUC222

FNAN2014 PRINCIPLES OF FINANCE **Credit 3**
This three-credit course is required of students doing the associate or bachelor's degree program in Business Administration and the Bachelor's degree program in Tourism Management or Accounting. Students will be introduced to financial management and will learn the fundamental concepts in financial management by looking at crucial concepts in finance such as Firms and the Financial Markets, Financial Statements and Analysis, Time Value of Money, Risks and Rates of Return, Interest rates and Capital Budgeting.
Pre-requisite(s): ACTG1054

FNAN3015 FINANCIAL MANAGEMENT **Credit 3**
This course advances students' knowledge of the environment, goals, and techniques of financial management. Furthermore, the course emphasizes investment decisions, financing decisions and control techniques. Topics include: the environment; goals and techniques of financial management; investment and financing decisions; control techniques including ratio analysis, the use of leverage, the cost of capital and long-term financial decisions; management of working capital, dividend policy; and special topics such as international financial management, leasing, mergers and small business financing.
Pre-requisite(s): ACTG1054, FNAN2014

FNAN 4030 INTERNATIONAL FINANCIAL MANAGEMENT **Credit 3**
This is a three-credit transfer-level course. It helps to prepare tomorrow's business leaders to comprehend global markets and lead organizations through a constantly changing global environment. Via illuminating case studies and real-world examples, students are introduced to the fundamental concepts and tools necessary to implement an effective global financial management strategy.

FNAN 4035 RISK ANALYSIS AND MANAGEMENT **Credit 3**
This course introduces the management of financial institutions and intermediaries and is designed to provide students with a detailed exposure to risk analysis and management in a changing environment, especially as it relates to the laws, technology and effects globalization may have upon banking and other financial institutions in the Caribbean and globally. Students should be able to comprehend the various forms of risks faced by intermediaries and the trade-offs required in order to balance risks and returns. The focus will be on the modern techniques of asset, liability and risk management with an emphasis on the regulatory issues of capital adequacy as they affect the safety and soundness of the financial system.

FNAN 4115 PUBLIC FINANCE **Credit 3**

This course is designed to help students develop and understand the various aspects of Public Finance including the analysis of government expenditures and revenues, taxation, public goods, externalities, public enterprises, economic models of government behavior, income distribution and stabilization policy. Other topics include the role of Government in supporting education and health, assistance to the poor as well as incentives to work. The course also focuses on emerging issues including social insurance and the implications of aging populations on public finance.

FNAN4155 REGULATORY ENVIRONMENT OF BANKING & FINANCE **Credit 3**

This course examines the regulatory environment for banking and finance. The focus of the course is on the main pillars of regulation and the reasons why they are seen as so important. It also looks at the impact of regulation on the business of financial institutions [FIs].

FNAN 4360 FINANCIAL MARKETS AND INSTITUTIONS **Credit 3**

The course describes and analyzes the operations, mechanics and structure of financial systems, emphasizing the major institutions, markets and instruments. The mainstream markets to be evaluated include the equity, money, bond, futures, options and exchange rate markets. The subject systematically reviews each of the mainstream financial markets and investigates the various institutional participants and the different types of financial instruments offered.

FNAN5103 FINANCIAL DECISION MAKING **Credit 3**

This course reviews the basic concepts and tools of finance for the purpose of decision making. Students will analyze topics such as investment decision, capital budgeting, cost of capital, working capital management, valuation of securities, interest rates, corporate liabilities, risk and return. The course will also examine the formation of capital structure, the optimal capital structure, and its choice on the value of the firm.

Pre-requisite(s): ACTG5101, MATH5101

FRCH1012 INTRODUCTION TO FRENCH **Credit 3**

This course provides an introduction to French pronunciation. Topics include: basic language structures and vocabulary; language interactions; appreciation of French language and culture.

Pre-requisite(s): NONE

GSTU0014 STUDY SKILLS **Credit 0**

This course is designed to help students develop self-knowledge and academic skills to meet the challenges of University life and work successfully. It will also help students to develop effective and practical skills needed to immediately see a positive difference in both their academic performance and the life choices they make. Topics include: motivating yourself to learn, creating and using study systems, thinking critically, concentrating, reading with understanding and managing ones learning; setting goals and solving problems; time management; health & well-being; improving learning and memory; building career skills.

Pre-requisite(s): NONE

HIST1101 PRECOLUMBIAN SOCIETY IN LATIN AMERICA & CARIBBEAN **Credit 3**

This course is an introductory survey of ancient and historic societies that inhabited the region prior to the arrival of European conquerors. After brief reviews of the emergence of specific civilizations such as the Olmec, Maya, Aztec, Inca, and the Taino in the Caribbean, the focus will be on major developments in sociopolitical, technological and ideological themes that spanned across the wider Central America and Caribbean and led to a pan-Mesoamerican cultural sphere.

Pre-requisite(s): English011

HIST1014 BELIZEAN HISTORY **Credit 3**

This course surveys the major events, themes and forces that have shaped Belizean history since 2000 B.C. The course describes, examines and evaluates the experiences of the diverse peoples who have come to form the modern nation of Belize. The themes and forces include civilization, imperialism, colonization, enslavement, resistance, political economy, nationalism, independence, environment and globalization. Students are required to understand within a chronological framework the common threads that unite all Belizeans despite geographical location and social or cultural differences. Students are also introduced to the subjects of cause and effect, process and change in Belizean history.

Pre-requisite(s): ENGL0090

HIST1051 INTRODUCTION TO HISTORY **Credit 3**

This course introduces students to the nature and character of history as a discipline. HIST111 helps students examine and evaluate historical ideas, historical explanations, historical methods and skills involved in the collection, analysis, and synthesis of information. Through lectures, seminars and visits to the archives students are exposed to the mechanics (skills and applications) of gathering, organizing, analyzing, and reporting information. Themes and topics to be covered will include: What is history? Sources of history; causation in history; theories of history; historical methods; history as progress; objectivity in history; science, judgment and morality in history. Students will be required to prepare referenced research papers using either the Belize Archives or oral history to reconstruct one aspect of Belizean history.

Pre-requisite(s): NONE

HIST1151 DIPLOMATIC HISTORY OF BELIZE **Credit 3**

The historian R. A. Humphreys noted that “the settlement of Belize was from the seventeenth to the twentieth century a center of acute diplomatic controversy.” This course examines the various diplomatic controversies that have marked Belize from its development as a British settlement up to the present. While special attention will be given to the Anglo-Spanish, the Anglo-Mexican, and the Anglo, and later, Belize-Guatemala disputes. Belize’s relationship with the Caribbean and the wider world will also be examined.

Pre-requisite(s): NONE

HIST1201 POLITICAL AND ECONOMIC HISTORY OF BELIZE **Credit 3**

This survey course guides students to examine and evaluate major political and economic developments in Belize since the late07th Century. Through lectures, seminars and research papers, students are exposed to the trends, pat- terns, perspectives and their influences on Belize’s political and economic development over the past two centuries. Topics include: definitions and concepts; early settlers & systems of political and economic exploitation; the development of a colonial economy; an overview of political and economic developments in08th &09th century Belize; constitutional development; Imperialism and Capitalism; the emergence of pressure groups and political parties; politics of nationalism; political and economic developments in independent Belize; government and politics since independence; the political economy of globalization and its influences on Belize’s political economy.

Pre-requisite(s): NONE

HIST1252 ANCIENT AFRICAN CIVILIZATION **Credit 3**

This survey course enables students to analyze and critique the theories of human origins as well as the development of civilizations. The course covers diverse themes and topics including the origins of humans; the evolution of agriculture (the domestication of plants and animals); migrations and settlement patterns; state formation and African contacts with the outside world. Topics include: geography, peoples and languages of Africa; sources of African history and civilizations; human origins and development of settled societies in Africa; the development of agriculture in Africa; Bantu migrations and the Iron Age in Africa; early Nile Valley civilizations (Kemet, Nubia, Kush, Axum, & Ethiopia/Abyssinia); early civilizations in North Africa; Sudanic empires of Ghana, Mali, & Songhay in West Africa; forest states of west and central Africa; The Swahili city states of East Africa; early civilizations in Southern Africa; Great Zimbabwe, Christianity and Islam.

Pre-requisite(s): NONE

HIST1302 ANCIENT ASIAN CIVILIZATION **Credit 3**

This survey course introduces students to three main cultural zones: Anatolia (Turkey), Persia (Iran), and Mesopotamia (Iraq), in the Near East; the Indian sub-continent, and China, in East Asia. The main objective of this course is to enable students to examine, compare and analyze main ideas, events, individuals, time lines, and important geo- graphical locations in ancient Asia. Topics will include: geography, peoples and languages of Asia; the Fertile Crescent: Mesopotamia, Uruk, Summer, Akkad, Babylonia and Assyria; Indus River Valley; the Aryan Age and the spread of Brahmanical influence in South India; state and empire in India; Hinduism, Buddhism and Jainism and their influences; caste/class systems and influences; Han, Shang, Chin, Ming dynasties in China; Confucianism and Daoism and their influences.

Pre-requisite(s): NONE

HIST1352 MAYA CIVILIZATION IN BELIZE **Credit 3**

This course is an introductory survey of ancient Maya civilization with particular emphasis on the highlights and achievements of the Maya in Belize. The course also provides a general introduction to ancient Maya political, economic, scientific, technological and socio-cultural history from0000 B.C. to A.D.0600.

Pre-requisite(s): ENGL111

HIST2101 GREEK-ROMAN CIVILIZATIONS **Credit 3**

This course is an introductory survey of Greek and Roman civilization in classical antiquity. Both cultures contributed greatly to the development of law, war, arts, literature, architecture, technology and language in the western world and the study of Greek and Roman history shows that these civilizations continue to have major influences on the world today.

Pre-requisite(s): ENGL111

ESCI2102 HEALTH AND FAMILY LIFE **Credit 3**

This course aims to empower teachers with knowledge, skills, strategies and opportunities to become informed decision-makers that will foster the promotion of healthy lifestyles and total development. Topics include: health wellness and lifestyle; goal setting and strategies for change; self-development and interpersonal relationships; appropriate eating and fitness; human sexuality and sexual health; managing the environment.

Pre-requisite(s): SCIE150

HIST2151 SLAVERY AND EMANCIPATION IN BELIZE **Credit 3**

The importation and enslavement of Africans became a cornerstone of the colonial society and economy that developed in Belize. This course examines major aspects of slavery and emancipation in Belize against the backdrop of slavery in the Caribbean and Latin America. Topics include: slave population; ownership; engagement in logwood and mahogany cutting; revolts and escapes; differences with the plantation economies of the Caribbean; sustaining African culture; creolization, emancipation; and the legacy of slavery.

Pre-requisite(s): NONE

HIST2201 INTRODUCTION TO COLONIAL & LATIN AMERICAN HISTORY **Credit 3**

This course surveys the entire field of colonial Latin American history from the archaeological period to the in- dependence of Latin American countries in the early decades of the09th century. The course emphasizes the inter-relationships among peoples of American, African and Iberian extraction within the institutional structures developed in colonial times. Themes include Amerindians; Iberians; conquest and the shaping of the colonial world; resistance, assimilation and accommodation in colonial society; and independence.

Pre-requisite(s): NONE

HIST2251 THE US BEFORE 1900 **Credit 3**

This course offers a broad survey of the History of the United States up to0900. HIST241 deals with major developments in the evolution of the United States as a major player in world affairs and examines the emergence of an industrial society in the Americas. Focus will be placed on colonial America; American independence; slavery; the Civil War; reconstruction; industrialization; and imperialism.

Pre-requisite(s): NONE

HIST2302 THE ATLANTIC WORLD 1400-1600 **Credit 3**

After the voyages of Columbus, the movement of people, goods and ideas across the Atlantic led to the emergence of a new system which transformed Europe, Africa and the Americas. This course will examine the major developments in the first two centuries of this system: the Atlantic World. Topics include: discovery and conquest; settlement and colonization; wars and clashes; the destruction of indigenous societies; the slave trade and slavery.

Pre-requisite(s): NONE

HIST2352 EUROPE IN THE AGE OF DISCOVERY **Credit 3**

This course introduces students to events and forces that shaped the emergence of Europe from the Dark Ages. The course explores, evaluates, examines and compares common challenges and experiences that united and also divided Europe. Topics to be covered will include: feudalism and serfdom; Reformation and the spread of Christianity; the Renaissance; the Age of Science in Europe (the printing press and the spread of ideas); The Age of Exploration (the compass and the caravel); the Age of Mercantilism; the Age of Imperialism (gun powder, conquest and colonialism); urbanization and urbanism; class and gender issues and the Age of Enlightenment.

Pre-requisite(s): NONE

HIST2402 A HISTORY OF MEXICO **Credit 3**

This course is an introductory survey of Mexican history that lays the foundations for further study in Mexican history. Themes include the native peoples of Mexico; the Spaniards; conquest, resistance and accommodation in colonial society; colonial institutions; independence, peasantry; the liberal revolution in the nineteenth century; the Mexican Revolution; trends in 20th century Mexican history.

Pre-requisite(s): NONE

HIST2452 COLONIALISM AND RESISTANCE IN CARIBBEAN **Credit 3**

This course examines the forces and factors which contributed to the rise of Colonialism in the Caribbean and the response of Caribbean people to this development. It will examine European developments; the role of the church; slavery and the plantation; slave revolts; the Haitian Revolution; the French Revolution; economic changes; political developments; impact of industrialism; imperialism; world wars; independence movements; decolonization and development.

Pre-requisite(s): HIST201

HOSP3011 FOOD SERVICE OPERATIONS **Credit 3**

Students will be introduced to the principles of the food and beverage industry with emphasis on the restaurant sector particularly developing the concept, menu, purchasing and storage, production and service, control, staffing issues, marketing, quality control and future trends and development.

HOSP3101 HOSPITALITY ACCOUNTING **Credit 3**

This course permits students to apply what they have learned as they become Hospitality Managers in the industry. The course will show managers how to use accounting information to achieve their personal and professional goals. Through exercises and problems, students will gain an understanding of generally accepted accounting principles. Students will be able to prepare and analyze income statements, balance sheets and statements of cash flow as well as how financial ratios are used to evaluate and analyze these documents. Students will also be introduced to food and beverage pricing, managerial accounting for costs, forecasting in the Hospitality Industry, budgeting and internal control.

HOSP3152 HOTEL AND RESTAURANT MANAGEMENT **Credit 3**

This course is designed to introduce students to the scope of the hotel industry and the organizational structure and operational mechanics of how the departments within hotels operate. Understanding the scope of the industry involves understanding who the major players are and what market segments their brands serve. Students gain an understanding of how work is performed and how activities are coordinated within and between hotel departments, and a special emphasis is placed on small properties and those that include restaurants. Topics include: the early inn and tavern; modern hotel; hotel/motel finance; hotel architecture and design; hotel organization and operations; food and beverage operations; the resort business; the restaurant business; restaurant finance and control; franchising and fast-food; institutional food service; the commercial kitchen; management of people.

HOSP3202 FOOD AND BEVERAGE MANAGEMENT **Credit 3**

Students are introduced to the principles of food service operations, beginning with an overview of the food service industry at large. Attention is initially focused on major industry segments, business practices, and trends. Emphasis is given to the components of the foodservice system: marketing; menu planning; production; service; controls; and quality assurance. Topics include: an introduction to food and beverage operations; menu planning and costing; quality control and safety.

Pre-requisite(s): TOUR1014, MGMT1014

HOSP3302 ADVANCED CUSTOMER SERVICE **Credit 3**

This customer service course will provide participants with the knowledge and skills required to ensure that products and services are delivered and maintained to the standards your customers have come to

expect. This customer service course will also provide participants with customer servicing skills essential for dealing with complaints and difficult situations whilst maintaining a strong focus on customer satisfaction and the customer experience. The customer service course will enhance each participant's ability to handle interactions with customers and ensure that they have the confidence to enable them to implement best practice customer service techniques, delivering customer satisfaction whilst developing customer loyalty.

HOSP4051 MANAGING FRONT OFFICE OPERATIONS **Credit 3**

This course presents a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservations process to check out and settlement. The course also examines the various elements of effective front office management, paying particular attention to the planning and evaluation of front operation and to human resources management. Front office procedures and management are placed within the context of the overall operation of a hotel.

HOSP4101 CONVENTIONS AND EVENTS MANAGEMENT **Credit 3**

This course is a senior level course that addresses one of the fastest growing segments in the hospitality industry. This course will allow students to examine the fundamental aspects of event and conference management. Emphasis will be placed on the marketing, planning, costing, executing and evaluation of events. Students will be additionally required to examine the selection of sites, transportation, food and beverage planning, social functions, publicity, and audio-visual requirements. This course will require students to develop and present a major project that must detail the planning and management of a conference from conception to fulfilment.

HOSP4105 MANAGING HOUSEKEEPING OPERATIONS **Credit 3**

This course intends to provide students with knowledge for housekeeping management in a hotel, therefore, covers the responsibilities of housekeeping personnel. Topics include: housekeeping - linen room, sewing room, laundry - cleaning and inspection of guest rooms and public areas. In addition, the course will focus on some crucial management decisions about inventories and expenses, as well as scheduling and motivating the housekeeping personnel.

HOSP4152 ADVANCED SUSTAINABLE TOURISM MANAGEMENT **Credit 3**

This course provides an overview of how sustainable tourism has emerged as a preferred approach to tourism development around the world. Students will be introduced to key concepts related to sustainable and responsible tourism development and will be required to apply this knowledge in the Belize concept. Through a review and introduction of the Belize model for Sustainable Development students will develop an applied appreciation of how to engage sustainable tourism as an ethos.

JUST3014 GLOBALIZATION AND JUSTICE **Credit 3**

A course that examines crime, crime trends, justice systems and policies of prevention, corrections and rehabilitation across various countries and regions. This course takes a look at issues that arise from transnational crime and policies. Students will explore phenomena relating to citizenship inclusive of migration trends.

LING3951 APPLIED LINGUISTICS **Credit 3**

This is a 3-credit course which seeks to integrate the study of linguistics theory with practical applica-

tions. The course primarily examines the components of language as they relate to areas such as language teaching and learning, first and second language acquisition, native identity and the use of language in professional contexts. As a result, students will be more equipped to teach language or perform other language- related task.
Pre-requisite(s): LING1152

LITR2152 SURVEY OF WORLD LITERATURE **Credit 3**
Survey of Literature I is a survey course that looks at the development of literature and reviews major works in three genres: fiction and non-fiction prose, poetry and drama. Central to this course is surveying these works within established literary periods: Literature of the Ancient World, The Middle Ages and The Renaissance. Students will be familiar with the origins of world masterpieces. The importance of structure, language, diction, style and literary devices in developing the themes of literary works is illustrated. Lastly, this course attempts to relate the study of literature to the lives and affairs of students so that they may develop the habit of reading good literature, as well as assimilate those aspects of literature which may broaden their outlook on life.
Pre-requisite(s): ENGL1014

LITR2551 CREATIVE WRITING: POETRY **Credit 3**
This upper-level writing course focuses on the art and craft of poetry.Students explore poems, noting such aspects as voice, diction, imagery, rhythm, tradition and form; write about poems – via explication and literary analysis; and craft poems of their own – which are work-shopped in a supportive, collegiate atmosphere.Students are expected to maintain a graded portfolio showcasing their work for all three components: a personal anthology, reading reflections and criticism, and creative work.
Pre-requisite(s): ENGL1025

LITR 2451 INTRODUCTION TO LITERARY APPROACHES **Credit 3**
This course introduces a variety of critical approaches to literature, such as the sociological, the psychological, and the formalist approaches. Emphasis is also placed upon the history of criticism. An analysis of short works in the major literary genres poetry, fiction and drama will be conducted through seminar discussions and the use of critical lenses in the production of 3-4 page essays.
Pre-requisite(s): ENGL1025

LITR 2501 BELIZEAN LITERATURE I **Credit 3**
This course offers a survey of Belizean literature from the earliest colonial writings to the end of the 1980s. Students are provided with a historical framework for the study of our national literature that encompasses oral tradition precursors and the social, cultural and political dynamics in Belize. Students will analyze poetry, drama and prose from three literary periods: (1) Colonial Writings Up to the Early 1900s, (2) The 1920s to 1960s, and (3) The 1970s and 80s.
Pre-requisite(s): ENGL1025

LING1152 FUNDAMENTALS OF LINGUISTICS **Credit 3**
Fundamentals of Linguistics introduces the study of language.It explores concepts and theories of various areas of linguistics including phonology, orthography, morphology, etymology, syntax, semantics and language acquisition. It examines the spoken and written forms of language varieties in the Belizean and global context.
Pre-requisite(s): ENGL1025

LITR 2257 CARIBBEAN LITERATURE I **Credit 3**
Students survey foundational Caribbean discourses and texts in Caribbean Literature—beginning with

an assessment of pre-Contact cultural heritage, on through the colonial period and the Caribbean's violent "irruption into modernity". Themes include literary treatments of the colonial encounter, the transatlantic slave trade, plantocracy, revolution, and early nationalist movements. The period covered includes the06th through to the mid-20th Centuries.
Pre-requisite(s): LITR2451

LITR 2206 AFRICAN LITERATURE I **Credit 3**
This course examines literatures written in English by various African writers. It emphasizes the roles various African writers play in subverting Eurocentric and hegemonic accounts of their history by rewriting, recapturing and re-contextualizing their own history and significance. Texts will be read for their literary and aesthetic value, taking into account specific historical terms and conditions of their literary production.
Pre-requisite(s): LITR2451

LITR 2357 LATIN AMERICAN LITERATURE I **Credit 3**
This course examines Latin American literature from the pre-Columbian period to the early to mid "Boom" period—the 1950s and 60s. Works are situated within their historical contexts to enable students to appreciate the socio-cultural and political dynamics of the time. Students will study various literary forms including myth, poetry, drama and prose, beginning with the Popol Vuh and other indigenous writings through to the writings of García-Márquez and other major Boom writers.
Pre-requisite(s): LITR2451

LITR2156 BRITISH LITERATURE **Credit 3**
This course provides an overview of dominant genres of British Literature from the Anglo-Saxon Period to the Modern Age emphasizing the protagonist and the socio-cultural evolution reflected in the works studied. Topics include: epic and lyric poetry; the Romance; tales; drama; the novel.
Pre-requisite(s): LITR2451

LITR3101 CRITICAL WRITING AND RESEARCH **Credit 3**
This course integrates the utilization of effective research skills with major literary approaches and theories to enhance critical thinking skills and emphasizes use of the MLA format. Topics include: the process of reading, responding to, and writing about literature; writing about: likes and dislikes, plot and structure, character, setting, point of view, idea or theme, literary research papers, imagery, structure, symbolism and allegory, tone, literary analysis essay; analyzing poetry.
Pre-requisite(s): ENGL1035

LITR 4402 LATIN AMERICAN LITERATURE II **Credit 3**
Borges, Boom, and Beyond. Students explore the fabulous riches of Latin American literature from the "Boom" and beyond—roughly, the 1960s to the contemporary period. Taking Jorge Luis Borges as a pivotal figure in Latin American letters, the course juggles fiction, short stories, and poetry to engage students with seminal debates, diverse modes, and contemporary movements in Latin American Literature. To aid appreciation, writers and works are situated within their—often turbulent—socio-historical contexts.
Pre-requisite(s): LITR3101

LITR4351 CARIBBEAN LITERATURE II **Credit 3**
In this course, students explore diverse literary texts and secondary readings aimed at increasing their understanding of contemporary issues in the Caribbean. Building upon pre-Contact and colonial themes, students examine post-independence issues including the prevailing legacies of slavery and colonialism,

independence movements, neocolonialism, globalization, immigration, and identity. Furthermore, students develop an appreciation for the role that literature plays in rewriting history and re-visioning self-image among Caribbean peoples.
Pre-requisite(s): LITR3101

LITR 3302 AFRICAN LITERATURE II **Credit 3**
African Literature II features contemporary and experimental works of literature drawn from various cultural traditions of the African continent. The course explores a variety of works to highlight both the diversity of literary resources present in Africa as well as the range of cultural and critical concerns its writers explore. As an upper-level course, students are expected to engage with some critical theory of African Literature in their research paper assignments.
Pre-requisite(s): LITR3101

LITR 3201 BELIZEAN LITERATURE II **Credit 3**
Students read, interpret, and create contemporary Belizean literature. Starting with the critical analysis and appreciation of Zee Edgell's later novels and her unique place in Belize's literary canon, the course then brings together notable recent works of Belizean Literature from different genres: poetry, plays, and shorter prose. Students employ literary theory towards interpretation of works, complicate assumptions with regard to Belizean literature, and, as a related component, produce a short work of their own.
Pre-requisite(s): LITR3101

LITR 3752 WORLD DRAMA: HISTORY, TEXT AND PERFORMANCE **Credit 3**
World Drama will provide students with a solid global foundation in the history of theatre and drama, theatre performance traditions, and major works of world drama. Beginning with the rituals and storytelling traditions of the African continent, students will explore common themes of drama from the Ancient Greeks, as well as historic and contemporary East India, Japan, Europe, Western and Southern Africa, and North and South America. Lectures, research, and texts will allow us to study dramatic forms, cultural contexts, and performance theories to understand how drama has developed over time.Students will be encouraged, whenever possible, to view or participate in live and recorded theatre performances.
Pre-requisite(s): LITR3101

LITR 3402 SPECIAL TOPICS IN LITERATURE **Credit 3**
This course offers a critical examination of a central theoretical or thematic concept. The course will focus on an in-depth study of a specific theme, author, period or genre. Through the thorough investigation of a particular theme, students will learn how to apply a diversity of cross-cultural and cross-disciplinary perspectives to a wide range of texts. A non-exhaustive list of possible themes or topics include: Resistance in Theatre, Literature and the Environment, Adolescence in Literature, Queer Theory, Feminism, Dis-ease and Healing in Literature.
Pre-requisite(s): LITR3101

LITR 3802 CREATIVE WRITING: NONFICTION **Credit 3**
This introductory course provides students with a supportive workshop experience within which they can experiment with different genres within creative nonfiction, including personal essays, memoirs, and short shorts. Students' writings are critiqued by their peers in workshops; hence, learning how to give and receive criticism honestly and graciously are key components. No previous creative writing experience is required.
Pre-requisite(s): ENGL1035

LITR 4651 CREATIVE WRITING: PROSE **Credit 3**

No previous creative writing experience is required for this introductory course in fiction writing; however, College English II is a prerequisite. Students write short spontaneous pieces as well as longer assignments as they apply techniques observed in works by established writers and experiment with their own styles. By the end of the semester, students will have created a portfolio of work, at least one of which should be ready for submission to literary journals or writing contests.

Pre-requisite(s): ENGL1035

LITR 4701 LITERATURE AND THE ENVIRONMENT **Credit 3**

This course explores the relationship between imaginative literature and the physical world, a practice known as ecocriticism. Students explore ways of approaching literature "ecocritically", engage seminal and contemporary debates within the environmental humanities, and appraise the role imaginative literature plays in addressing global environmental problems. Course content contributes toward students' knowledge of cultural theory and environmental philosophy, and serves as catalyst to engaged social action or critique.

Pre-requisite(s): LITR3101

LITR 3451 SURVEY OF US AMERICAN LITERATURE **Credit 3**

This course is a survey of American Literature studied against the backdrop of historical events, political and social changes, and historical traditions (for example, the dominant and pervasive events). Course work includes in-depth analysis and criticism of selected major American writers from the08th to the 20th Century. Sub-topics include: The Oral Tradition of Native Americans, The Transcendentalist; The Slave Narrative; The Local Colorists, The Harlem Renaissance and Seminal American Modernist writers.

Pre-requisite(s): LITR3101

LITR 4751 MAJOR AUTHOR: SHAKESPEARE **Credit 3**

This course offers a critical study of Shakespeare's tragedies, comedies, major plays and sonnets. A wide range of literary approaches will be applied to selected works to examine how literary elements, motifs and conventions produce themes, and how these works were shaped by social and cultural issues. Emphasis will also be given to how and why these works continue to be relevant and applicable to society today.

Pre-requisite(s): LITR3101

LITR 4101 WRITING AND REPORTING ACROSS THE MEDIA **Credit 3**

This course offers an introduction to the fundamentals of journalism, primarily stressing reporting and writing the news. Emphasis is also placed on developing the skills of interviewing, and copy reading. In order to achieve an ever broader focus the course also introduces students to the basics of writing in a professional environment, and to the various forms of writing for the mass media. These forms include news stories for print, broadcast, online and other types of writing for public relations. Members of the class will intern for 4 weeks as staff writers for a local newspaper or media house.

Pre-requisite(s): ENGL3155

LITR 4462 POST COLONIAL STUDIES **Credit 3**

This course is intended to serve as a general introduction to postcolonial literature and theory. We will be reading a number of the most influential theorists of postcolonialism that have been of particular importance to debates and discussions in the field. A post-colonial theoretical lens will be used to critically analyze a survey of post-colonial literatures as they relate to issues in colonialism, identity formation and construction, cultural criticism, cultural hybridity, multiculturalism, feminism, national-

ism and other relevant issues. The course will be delivered in a seminar fashion which will focus on literary and theoretical research, and will involve Socratic style discussions, as well as the creation of critical papers.
Pre-requisite(s): LITR3101

LITR 4512 CONTEMPORARY MULTICULTURAL US AMERICAN LITERATURE Credit 3
This course will explore selected works from different cultural traditions within the United States.Each literary work will be used to examine how issues such as otherness, ethnicity, gender, history and hegemony inform, complicate and enrich the identity of several cultural traditions and their literatures. This course will be delivered in a seminar fashion and will focus on literature, criticism, linking to research, presentation, writing, discussion and analysis.
Pre-requisite(s): LITR3101

LITR 4652 SENIOR SEMINAR IN LITERATURE Credit 3
This course is intended to prepare English Literature majors for their emergence into academic, scholarly and professional life through the development of a substantial, sustained critical literary analysis and an exploration of the graduate school application process. Students will explore the work and criticism of one major author through several critical perspectives in order to produce a paper for the necessary graduate school writing sample; research appropriate graduate programs and funding sources [G.A., T.A., R.A., etc.]; write a letter of intent and cover letter; explore strategies for taking the Graduate Record Exam [and other entrance exams]; and research and discuss expectations and planning for a career in literary research and a variety of writing genres, including journalism, editing, and writing in English or Spanish, as well as interdisciplinary career options in the humanities.
Pre-requisite(s): LITR3101

LITR 4251 WOMEN IN LITERATURE Credit 3
This course is a survey of women's literary tradition in English and English translation, focusing on the ways women have written and have been written about and represented. The course employs three literary genres: the novel, the short story and poetry, representing diverse cultural backgrounds and historical periods against the backdrop of feminist and other literary theory and criticism.
Pre-requisite(s): LITR3101

LITR3252 ADOLESCENT LITERATURE Credit 3
This course explores how various writers portray society, religion, independence and other social factors and their influence on the growth of adolescents. Topics include: psychoanalysis; adolescence; gender issues; culture; feminism; historical and cultural background of authors and novels; identity formation; national identity; individual identity; discourses; technology; nationality; generation gaps.
Pre-requisite(s): LITR150

MATH0016 DEVELOPMENTAL MATH Credit 0
This pre-university course provides a review of secondary school mathematics topics needed for MATH1014. Topics include: real number system; linear equations; radicals; exponents; factorization; graphs.
Pre-requisite(s): NONE

MATH1014 INTERMEDIATE ALGEBRA Credit 3
This course examines Basic Concepts of Algebra and geometry. It serves as a prerequisite to business math courses and provides a mathematical background for students studying in the scientific field. It is vital that students master all the techniques taught in this course, as they are pre-requisite to most of the

mathematics courses. This course fulfills a general core requirement. Topics include: exponents, polynomials, rational expressions, radicals, relationships between exponents and roots, complex numbers; equations, inequalities and problem solving - linear equations and quadratic equations, inequalities involving quotients and absolute value; coordinate geometry and graphing techniques; linear and quadratic, functions; exponential and logarithmic functions.
Pre-requisite(s): ATLIB MATH pass, UB Placement, or MATH0016

MATH1151 ALGEBRA **Credit 3**
This course provides a solid foundation for students wishing to pursue an academic career in pure and applied sciences. Topics include: the real number system; methods of proof; indices and proportionality; polynomials; factoring and simplification of expressions in compound or irrational form; identities; equations and in equations; fundamental theorem of algebra; rational root theorem; synthetic division; the modulus; functions; logarithmic and exponential functions; counting techniques; the factorial notation; polar coordinates.
Pre-requisite(s): HIGH SCHOOL MATH (GENERAL PROFICIENCY), or MATH1014

MATH1201 TRIGONOMETRY **Credit 3**
This 3-credit course in Trigonometry stresses mathematical techniques such as solving identities, and evaluating and graphing circular functions. Topics covered include Trigonometric Functions and their properties, Solutions of Right and Oblique Triangles, Radian Measures, Graphs, Identities, Trigonometric Equations, and Applications.
Pre-requisite(s): HIGH SCHOOL GENERAL PROFICIENCY IN MATHEMATICS

MATH1212 MATHEMATICAL SOFTWARE **Credit 3**
This course provides an introduction to the use of several software packages which are useful to mathematics students. Among the packages are Maple and Mathematica for symbolic computing, and Matlab for numerical computing. The aim of the course is to provide the student with some basic skills in the use of this software without attempting complete coverage. A deeper knowledge of the software will be easy to obtain after completing this course. There are no prerequisites for the course, other than basic computer literacy and a knowledge of elementary mathematics. It is suggested that the course should be taken during the first two years of the BMAT program.
Prerequisite(s): NONE

MATH1252 COMPLEX NUMBERS AND VECTORS **Credit 3**
This is a 3-credit introductory course for first year associate degree mathematics students. It introduces the concepts of and gives students a proper perspective for studying the systems of coordinate geometry, vectors and complex numbers. Much attention is also given to the applications of the abovementioned topics at this level.
Pre-requisite(s): MATH1201

MATH1302 CALCULUS 1 **Credit 3**
This course focuses on differential and integral calculus. Topics include: review of functions and polynomials and derivatives: polynomials; implicit differentiation; solutions to right and oblique triangles, radian measures; graphs; identities; trigonometric equations and applications: curve sketching; integration and differentiation; area.
Pre-requisite(s): MATH1151, MATH1201

MATH2011 BIOSTATISTICS I **Credit 3**
This course introduces students to statistical language and facilitates the understanding of statistical

concept(s) through its application to a wide range of topics in Natural science. Topics include: descriptive statistics: graphical: qualitative and quantitative data; numerical: measures of central tendency and measures of variation (univariate, bivariate); probability: sample space, outcomes, events, relations, conditional; probability distributions: discrete (general case, uniform, binomial, poison, hypergeometric), continuous (uniform, normal); large sample estimation; large sample tests of hypothesis.
Pre-requisite(s): MATH1014, ENGL1025

MATH2025 BUSINESS STATISTICS I **Credit 3**
This course is a basic introduction into statistics for non-math majors. Topics include: data and statistical thinking; methods for describing sets of data; probability; random variables and probability distributions; and inferences based on a single sample.

MATH2151 STATISTICS 1 **Credit 3**
This course introduces students to Statistical language and facilitates the understanding of Statistical concepts through its several applications to real life situations. Basic statistical methods including data organization and presentation, measures of central tendency and dispersion, and correlation are discussed. Students will be introduced to elementary theory of probability. Discrete probability distributions will include the Binomial, Geometric and the Poisson and continuous distributions will include the Uniform, Exponential and Normal. Simple calculus is used to address issues of expectations in continuous distributions.
Pre-requisite(s): MATH1151

MATH2201 CALCULUS II **Credit 3**
This is a three-credit course. It includes Exponential and Logarithmic functions, Differentiation of trigonometric and exponential functions and their applications, and Integration of trigonometric, exponential and fractional functions and their applications. Also it involves formulating differential equations from a model involving rate of change and solutions to first order differential equations. There will also be an introduction to second order differential equations.
Pre-requisite(s): MATH1302

MATH2251 INTRODUCTION TO DISCRETE MATHEMATICS **Credit 3**
This 3-credit course serves to incorporate tools which assist students to incorporate technology into their program. These concepts allow them to familiarize themselves with linear programming, assignment models, graph theory and critical path analysis, and logic and Boolean algebra. Additional topics to be covered include: counting techniques and probability.
Pre-requisite(s): MATH1302

MATH2302 MATHEMATICS OF MODELING **Credit 3**
This 3-credit course consists of a varied array of topics that are generally applications of Pure Mathematics. Several concepts had been seen in earlier courses but had never been explored in depth. This course includes further curve sketching; sequences and series; the summation notation; arithmetic and geometric progression; infinite series; binomial theorem and binomial expansion; further 3-D trigonometric applications; numerical methods: iterations; Newton-Raphson method; Taylor and McLaurin's series; compound inequalities of rational form including absolute value.
Pre-requisite(s): MATH2201

MATH2352 STATISTICS II **Credit 3**

This course exposes students to research techniques. Students will be able to develop their mathematical knowledge, develop an understanding of statistical principles, acquire a range of skills, develop the ability to analyse problems logically, use statistics as a means of communication, and acquire the statistical background necessary for further study in this or related subjects. This course covers linear combinations of random variables; continuous random variables; sampling and estimation; hypothesis testing; confidence intervals; goodness-of-fit test. Course specifics: research project.

Pre-requisite(s): MATH2151

MATH2402 MECHANICS **Credit 3**

This 3-credit course seeks to analyze the laws governing the mechanical interaction between various bodies. Detailed attention is given to many types of forces, their interactions and their effect on various physical systems. Similar scrutiny is also given to various types of energy and their transformation. Topics include: vectors: scalars, vectors; vector mechanics; equilibrium; kinematics: rectilinear motion, vertical motion, projectiles; dynamics: Newton's Laws; work; elasticity; energy; impulse; momentum; and power.

Pre-requisite(s): MATH1252, MATH2201

MATH3012 BIOSTATISTICS II **Credit 3**

This course prepares students for further study in Science and Math. It is designed to assist students in writing research papers since it's in the area of probability & statistics. Topics include: estimation and hypothesis testing: distribution, Chi Square distribution; analysis of variance: single classification, nested, two-way; regression and correlation analysis; introduction to multivariate analysis.

Pre-requisite(s): MATH2011

MATH3025 BUSINESS STATISTICS II **Credits 3**

This is a course in elementary statistical methods for social science applications. The purpose is to introduce the logic and procedures of descriptive and inferential statistics. The course is divided into five units: Description (how we describe observed cases), inference (generalizing to other cases), estimation (educated guesses about all cases), covariation (relationships between two variables), and modeling (describing relationships among many variables).

Pre-requisite(s): MATH2025

MATH3042 BUSINESS CALCULUS **Credit 3**

Topics include: functions; graphs; mathematical models; limits; continuity; rules of differentiation; maxima and minima; curve sketching; optimization; integration.

Pre-requisite(s): MATH3031 or MATH1014

MATH3051 QUANTITATIVE METHODS **Credit 3**

Quantitative Methods is designed to prepare students with a set of tools to meet the challenges of today's business environment. This course is about management science and includes a set of deterministic models specifically selected from several topical areas. The objectives are:0) to develop a solid foundation in important management science concepts and techniques, and 2) to provide a thorough understanding of their applications in solving business problems. In addition, the course will stress the use of computer software to analyze and solve related problems on a microcomputer.

Pre-requisite(s): MATH2025

MATH3151 LINEAR ALGEBRA **Credit 3**

This course will serve as a basis to more rigorous math courses such as Differential Equations, Linear

Programming and other Linear Algebra Courses. It focuses on the theory of matrix algebra and applications, vector spaces and subspaces, determinants, co-factors, inverses of matrices, Gaussian elimination, linear transformation, linear dependence and rank.
Pre-requisite(s): MATH2201

MATH3201 FUNDAMENTAL CONCEPTS OF MATHEMATICS **Credit 3**
This course introduces students to prepositional calculus, types of proof including mathematical induction, set theory, relations and equivalence relations, functions, finite and infinite sets and ordering of cardinal numbers.
Pre-requisite(s): MATH2201

MATH3251 CALCULUS III **Credit 3**
This course is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, vector valued functions, and line and surface integrals using Green's, Divergence and Stoke's theorems. Upon completion, students should be able to select and use appropriate models and techniques for finding the solution to multivariate-related problems with and without technology.
Pre-requisite(s): MATH2201

MATH3302 PROBABILITY AND STATISTICS II **Credit 4**
This course presents the basic ideas and techniques of theoretical probability. It is part of a one-year course. Together, MATH 360 and MATH 361 give the students the statistical background needed to do advanced statistical courses at the Graduate level. Topics include: axioms of probability; concepts of densities and probability functions; random variables and their properties; functions of random variables; joint and limiting distributions; special probability distributions; expectation; moment generating functions.
Pre-requisite(s): MATH2151, MATH3151 & MATH3251

MATH3362 CALCULUS IV **Credit 3**
This is a three-credit course that builds on the foundation established by the previous three calculus courses. It delves into more advanced topics in the field of calculus that seek to bridge the gap between undergraduate and graduate calculus. It is divided into three major sections: Vector Calculus, Orthogonal Functions, and Calculus of Variations. The first section is further divided into subtopics such as Divergence, Curl, Divergence Theorem and Stokes Theorem. The second section is divided into Fourier Series, Legendre Polynomials, Fourier and Laplace Transforms. The last section is an introduction to the Euler-Lagrange equations.
Prerequisite(s): MATH3251

MATH3742 MATRIX ANALYSIS **Credit 3**
Problem-solving and applications in matrix algebra. Vectors, matrices, linear transformations, inner products, dimension, eigenvalues and eigenvectors. Applications to systems of equations and to geometry.
Pre-requisite(s): MATH2251

MATH4201 PARTIAL DIFFERENTIAL EQUATIONS **Credit 3**
Topics are selected from first-order quasilinear equations, classification of second-order equations, with emphasis on maximum principles, existence, uniqueness, stability, Fourier series methods, and approximation methods.
Pre-requisite(s): MATH4201

MATH3402 REAL ANALYSIS I **Credit 3**

This is the first course in the area of Real Analysis. It introduces the student to the rigorous foundation of calculus. It emphasizes on the development and understanding of proofs and the necessary definitions used to develop a proof. Topics include: methods and application of proof techniques; sets and functions; characterization of real numbers; sequences; continuity; limits; differentiation; integration; basic concepts of functional analysis.

Pre-requisite(s): MATH3201

MATH4201 ORDINARY DIFFERENTIAL EQUATIONS **Credit 4**

Differential equations is one of the tools used by scientists, mathematicians and engineers to model the physical world. It is a beautiful application of the ideas and techniques of calculus to our everyday lives. In this course, students will examine ways in which ODEs arise in mechanics, electronics, population and epidemic models, physiology and medicine. Topics include: first order differential equations; second order linear equations; series solutions of second order linear equations; Laplace transform solutions; differential equations; numerical methods.

Pre-requisite(s): MATH3151, MATH3251

MATH4151 PROBABILITY AND STATISTICS III **Credit 3**

This course is a continuation of MATH 360. It deals with the theory and methods of statistical interference. Together, MATH 360 and MATH 361 give the students the statistical background needed to do advanced statistical courses at the Graduate level. Topics include: types of estimation; concept of sampling distributions; hypothesis testing; uniformly most powerful tests; theory of categorical data and non-parametric methods; linear statistical models.

Pre-requisite(s): MATH3302 & MATH2352

MATH4251 REAL ANALYSIS II **Credit 3**

A continuation of MATH3402. It provides a sound background for students pursuing graduate level courses in mathematics, stressing ideas and theorems of Modern Real Analysis. Topics include: integration; sequences of function; infinite series; Riemann integration; Riemann integrable functions; uniform convergence of functions; absolute convergence of functions; improper and Lebesgue integrals; the generalized Riemann integral.

Pre-requisite(s): MATH3402

MATH4301 COMPLEX ANALYSIS **Credit 3**

This course introduces students to the concept of complex numbers, their derivatives, integrations, manipulation and application. Complex analysis is an extremely powerful tool with a large number of practical applications to solutions of physical problems. Topics include: complex numbers system; fundamental theory of analytical functions; complex functions; elementary functions; mapping of elementary functions; residues and their applications; com- plex numbers: derivatives, integrations, properties & applications; Cauchy's Theorem, series, and residues & poles.

Pre-requisite(s): MATH1252 & MATH3402

MATH4352 NUMERICAL ANALYSIS **Credit 4**

This course presents the basic ideas and techniques of numerical analysis. Topics include: computer algorithms; iterative techniques; solutions to equations; interpolation and extrapolation; differentiation; integration; odes; systems of equations: directly, factorization; tolerance and error bounds; error functions; error analysis; order of convergence; use of a high-level computer language.

Pre-requisite(s): MATH3282, MATH4201, & MATH3402

MATH4402 ABSTRACT ALGEBRA **Credit 3**

Topics include: sets, relations, functions and operations; theory of groups; permutation, cyclic, dihedral, and abelian groups; isomorphism; homomorphism; and automorphism; direct products; rings; integral domains; fields.

Pre-requisite(s): MATH3402

MATH4452 TOPOLOGY **Credit 3**

This is an introduction to general topology. Students will be expected to produce rigorous proofs in exercises and to understand and be able to reproduce the proofs of major theorems and propositions. Topics include: continuity; separation, and compactness; connectivity on the real line; topological spaces; homeomorphisms; functions; mappings; connected spaces; relative topology; compact spaces; connectivity in topological spaces; hierarchy of topological spaces; metric spaces.

Pre-requisite(s): MATH4251

MATH4502 SPECIAL TOPICS **Credit 3**

This course is designed to facilitate innovative ideas from students and foster rich diversity in the Math Department. It provides opportunity for in-depth enquiry into special topics agreed upon by lecturer and student(s), and topics not generally seen in the regular curriculum. Activities expected: Discussions, Reports, Research, Presentations, etc.

Pre-requisite(s): MATH4201, MATH4301, MATH4151

MBIO2151 LIMNOLOGY **Credit 3**

This course covers the physical, chemical and biological characteristics of fresh water ecosystems, the intimate relationships, problems and challenges that exist between human communities and the fresh water environments, various methods of collection and identification of fresh water fauna and flora and analysis of physical and chemical parameters of fresh water environments. Topics include: Physical, Chemical and Biological Characteristics of Inland Water Ecosystems. Water Quality Assessment. Human Impact to These Systems. Solutions to These Problems.

Pre-requisite(s): CHEM1015, BIOL1302

Co-requisite(s): MBIO2301L

MBIO2201 MARINE ECOSYSTEMS **Credit 3**

This course introduces the major concepts and principals related to marine ecosystems that results in understanding the processes and characteristics of most marine ecosystems as well as current environmental issues concerning these ecosystems. Topics include: Water Cycle. Properties of water. Division of Water Column. Division of Marine Environment. Physical and Chemical Conditions of Ocean Water. Ecological Terms. Primary Production. Plankton. Larva Strategies. Nekton. Deep Sea Community. Coral Reefs. Mangrove Systems. Marshlands. Sea Grasses. Rocky Shores. Sandy Shores. Muddy Shores. Kelp Forest. Estuary Systems.

Pre-requisite(s): BIOL1302

Co-requisite(s): MBIO2301L

MBIO2251 TAXONOMY OF AQUATIC INVERTEBRATES **Credit 3**

This course introduces students to aquatic invertebrates and studies the diversity, classification, morphology, physiology, behavior, and ecology of major invertebrate groups. Diversity of Animals Without Backbone. Major Protozoan and Invertebrate Groups - Classification, Morphology, Physiology, Life History, Ecology, Phylogeny.

Pre-requisite(s): HIGH SCHOOL BIOLOGY OR EQUIVALENT

MBIO2301L AQUATIC ZOOLOGY LAB I **Credit 1**

This course introduces students to aquatic systems and includes practical components related to MBIO2151 (Limnology), MBIO2201 (Marine Ecosystems) and MBIO2251 (Aquatic Invertebrates).

Pre-requisite(s): BIOL1251L, BIOL1402L & CHEM1015

Co-requisite(s): MBIO2151, MBIO2201 & MBIO2251

MBIO2352 AQUATIC VERTEBRATES **Credit 3**

Exposure to Aquatic Vertebrate Diversity and Classification, including Vertebrates Morphology, Physiology, Life History, Ecology and Phylogeny.

Pre-requisite(s): MBIO2251

Co-requisite(s): MBIO2452L

MBIO2402 FISHERIES DEVELOPMENT **Credit 3**

This course is designed to introduce students to major concepts and principals of coastal zone management for understanding of the role of the coastal zone. Topics include: Marine and Coastal Resources. Characteristics of Coastal Zone. Classification of Coastal Zone. Tragedy of Commons. Triggers Of ICZM. Principals of ICZM. Institutes That Perform Activities of CZM. International Conventions. Treaties and Laws Related to Coastal Zone. Human Impacts of Coastal Zone - Fishing Industry, Agricultural Run-off, Climate Change, Urbanization, Tourism, Sewage, Pollution. Field trip.

Pre-requisite(s): NONE

Co-requisite(s): MBIO2452L

MBIO2452L AQUATIC ZOOLOGY LAB II **Credit 1**

This course is a continuation of MBIO2301L and includes practical components related to MBIO2402(Fisheries Development) and MBIO2352 (Aquatic Vertebrates).

Pre-requisite(s): BIOL1251L, BIOL1402L

Co-requisite(s): MBIO2402 & MBIO2352

MBIO2502 COASTAL ZONE MANAGEMENT **Credit 3**

Marine and Coastal Resources. Characteristics of Coastal Zone. Classification of Coastal Zone. Tragedy of Com- mons. Triggers Of ICZM. Principals of ICZM. Institutes That Perform Activities of CZM. International Conventions. Treaties and Laws Related to Coastal Zone. Human Impacts of Coastal Zone - Fishing Industry, Agricultural Run- off, Climate Change, Urbanization, Tourism, Sewage, Pollution.

Pre-requisite(s): MBIO2201

MDRN1012 INTRODUCTION TO MANDARIN **Credit 3**

This Mandarin course provides an atmosphere which will increase students' participation and confidence in a non-threatening, whole Mandarin learning environment. The goal of this course is to develop students' interest in Mandarin. Furthermore, native-speaking instructors will lead you to embrace Chinese culture and traditions.

MECH1101L MECHANICAL WORKSHOP (PRACTICE) I **Credit 1**

This course allows students to develop experience in workshop operations and gain knowledge of common machine processes. Topics include: health and safety objectives; preparation for machining and fitting: hand tools and equipment; inspection; machine turning; milling; shaping, and grinding.

Pre-requisite(s): NONE

MECH1152L MECHANICAL WORKSHOP (PRACTICE) II **Credit 3**

This course allows students to further develop experience, to practice skills in workshop operations, and gain further knowledge of common machine processes. Topics include: health and safety objectives; preparation for machining and fitting: hand tools, equipment; inspection; machine turning; milling, shaping, and grinding.

Pre-requisite(s): MECH1101L

MECH2993 PRACTICUM (INTERNSHIP) **Credit 1**

This course engages students in practical experience through a four-week summer internship at an engineering firm.

Pre-requisite(s): NONE

MECH1301 ENGINEERING DRAWING AND DESIGN I **Credit 3**

This course is designed to give students the knowledge of theory and practice in engineering practice and design. It will help students to develop the necessary skills to be able to read, interpret and produce working drawings.

Pre-requisite(s): NONE

MECH1352 ENGINEERING DRAWING AND DESIGN II **Credit 3**

The general purpose of this course is to give students the knowledge to produce pattern drawings for fabricated components, calculation and drawing of spur gears, bearings, screw threads. It will enable students to produce fully dimensioned drawings from given assembly drawings.

Pre-requisite(s): MECH1301

MECH1401 MATERIAL SCIENCE WORKSHOP TECH **Credit 3**

This course is a general description of basic materials and their properties, uses and advantages and how they are used in the construction and engineering industry

Pre-requisite(s): NONE

MECH1451 MECHANICAL ENGINEERING SCIENCE I **Credit 3**

The general purpose of this course is to introduce a basic concept of Static, Stress and Strain, Machines and Friction.

Pre-requisite(s): NONE

MECH1502 MECHANICAL ENGINEERING SCIENCE II **Credit 3**

The general purpose of this course is to introduce to the student a basic concept of (a) Kinematics, which include: Linear and Angular Motion, impulse and Momentum; (b) Kinetics, which include: work, power, torque and moment of Inertia and (c) Fluid static, which include: pressure, gauges, monometers and buoyancy

Pre-requisite(s): MECH1451

MECH2101L MECHANICAL WORKSHOP (PRACTICE) III **Credit 1**

The general purpose of this course is to extend the students' knowledge of machining processes and to give practice in the use of machine tools, especially, performing advanced work on the lathe.

Pre-requisite(s): MECH1152L

MECH2152L MECHANICAL WORKSHOP (PRACTICE) IV **Credit 1**

The general purpose of this course is to enable the student to obtain a more advanced knowledge of working on the milling machine and also to gain knowledge of grinding ??

Pre-requisite(s): MECH2101L

MECH2201 POWER PRODUCTION I **Credit 2**
This course is to give students a basic background to plant technology used in steam plants and stem generation prime movers and compressors. In addition, it will cover combustion of fuels and electrical supplies and installations
Pre-requisite(s): NONE

MECH2252 POWER PRODUCTION II **Credit 2**
This course helps students develop the knowledge and understanding of the principles and application of the Pro- duction of Power in processes and equipment utilized by todays power generation stations and machinery in general
Pre-requisite(s): MECH2201

MECH2301 ENGINEERING DRAWING/DESIGN III **Credit 3**
The course is to further the knowledge of students with the theory and practice of engineering drawing design and to enable them to appreciate basic aspects of design with respect to materials, manufacturing considerations, ergonomics and safety.
Pre-requisite(s): MECH1352

MECH2352 ENGINEERING DRAWING/DESIGN IV **Credit 3**
The general purpose of this course is: (a) To enable students to appreciate basic aspects of design with respect to materials, manufacturing processes, ergonomics and safety; (b) To enable students to prepare a project design specification; (c) To enable students to appreciate the economic aspects of designs and (d) To be able to design a simple project and use the workshop to produce it
Pre-requisite(s): MECH2301

MECH2451 MECHANICAL ENGINEERING SCIENCE III **Credit 3**
This course is to develop the students' knowledge and understanding of the principles and application of Mechanical Engineering.
Pre-requisite(s): MECH1502

MECH2502 MECHANICAL ENGINEERING SCIENCE IV **Credit 3**
The general purpose of this course is to develop the students' knowledge and understanding of: the effects of torsion of shafts, the application of Newton's Laws of Motion, Energy, radius of gyration and DAlemberts principle.
Pre-requisite(s): MECH2451

MEDI 3001/L Gross Anatomy 1 **Credit 5**
Gross Anatomy I is offered in the first semester, year0, and is part0 of 3 Anatomy courses in the medical program. This includes an introductory description of the anatomical positions, planes, regions, direction, and movement and a detailed study of the integumentary, the upper limb, and the lower limb.

MEDI 3002 Medical Bioethics **Credit 3**
This course introduces students to the ethical dimensions of clinical medicine. It provides foundational knowledge in ethical theory and key principles—beneficence, non-maleficence, justice, and respect for autonomy—while examining contemporary ethical issues and decision-making in medical practice. Students will explore human rights and bioethics, confidentiality, professionalism, and legislation in

health care, with emphasis on Belize's legal context and global perspectives. Teaching methods include lectures, discussions, debates, and case analysis.

MEDI 3021 Medical Sociology **Credit 3**

This course examines the social causes and consequences of health and illness using a population-health perspective, with emphasis on Belize and the wider region. Students explore how social structures such as class, race, gender, and culture influence health behaviours, disease patterns, health disparities, and healthcare delivery. Topics include the social construction of illness, medicalization, healthcare inequalities, doctor–patient interaction, and the organization of medical practice. Through lectures, debates, case studies, and guest speakers, students will critically evaluate the interplay between society and health systems.

MEDI 3051/L Physiology 1 **Credit 5**

This course introduces the fundamental principles of physiology, and s detail study of the integumentary, musculoskeletal system and the digestive system. Students will explore how these systems function and integrate within the body, providing a foundation for understanding human physiology. The course is structured with theoretical and lab components that encourage hands-on learning and active participation.

MEDI 3052/L Physiology II **Credit 5**

Physiology II is part 2 of 3 courses. This course will provide students with an understanding of general physiological principles at both the molecular and cellular level, the functional organization of living systems, and the integration of these systems in the maintenance of homeostasis of the human body. Topics covered include the endocrine, cardiovascular, lymphatic, immune, respiratory, and reproductive systems.This course is integrated with a laboratory component that is student-oriented and encourages active learning.

MEDI 3101 Embryology **Credit 3**

The Embryology course is designed to give students a broad understanding of the patterns and principles of normal embryonic and fetal development of mammals. It provides a detailed knowledge of the anatomical relationships of major structures within the thorax, abdomen, head/neck, and back/limbs regions of the body.

MEDI 3161 Introduction to Clinical and Community Medicine **Credit 2**

This course introduces medical students to the foundational principles of community and clinical medicine, providing the essential skills required before engaging in system-based case studies. Students will explore public health concepts, social determinants of health, epidemiology, and health promotion, while also acquiring clinical fundamentals such as medical terminology, infection control, history-taking, physical examination, and professional communication. Through guided case-based learning (CBL), students will learn how to structure, analyze, and present cases, while reflecting on ethical principles and clinical decision-making. This prepares students to integrate community perspectives with clinical reasoning in Semester 2.

MEDI 3162 Clinical and Community Medicine 2 **Credit 2**

This course provides an in-depth understanding of Clinical Semiology, focusing on the identification, interpretation, and application of clinical signs and symptoms in medical diagnosis. The curriculum spans07 weeks, covering systematic approaches to physical examination, patient history-taking, and the semiological assessment of various organ systems. Students will develop clinical reasoning skills and use case-based learning to enhance their diagnostic capabilities.

MEDI 3202/L Medical Biochemistry **Credit 5**

The Medical Biochemistry course is a well-balanced course that teaches the science of biochemistry in a clinical and physiological context. The course explores the biochemical roles of the major organs of the body with an overview of the structure and function of macromolecules, the metabolic interplay between organs, principles of energy balance, and the roles of vitamins and minerals, acid-base disorder, and the chemistry of licit and illicit drugs. This course is integrated with a laboratory component that is student-oriented and encourages active learning.

MEDI 3252/L Gross Anatomy II **Credit 5**

Gross Anatomy II is offered in the second semester of year0, and is part 2 of the 3 Anatomy courses in the medical program. This course includes a detailed study of the following regions of the body: the Thoracic region, abdominal region, pelvic region and the head and neck. The course is integrated with a laboratory component that is student-oriented and encourages active learning.

MEDI 3262 Medical Genetics **Credit 3**

The Human Genetics course is designed to introduce fundamental concepts and technological advances in the study of human genetics as they pertain to medical practice. The course gives an overview of mechanisms for development of genetic diseases. Topics include different patterns of inheritance, classification of genetic diseases, identification of genes and variants in the genome, including gene mapping and an overview of each of the major subspecialties including Cytogenetics, Molecular genetics, Biochemical genetics, Clinical genetics, and Genetic Counselling. Reproductive and perinatal genetics are introduced but will be covered in depth during the fourth-year clerkship rotation in Obstetrics and Gynaecology.

MEDI 3351/L Histology **Credit 5**

Histology introduces students to the microanatomy of various tissues and organs of the human body and how structure and function correlate at the microscopic level. The structure and cellular organization of the four main tissue types are studied using microscopic examination and the histology of the following systems: the integumentary, the musculoskeletal, the nervous, the endocrine, cardiovascular systems, the lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. This course is integrated with a laboratory component that is student-oriented and encourages active learning.

MEDI 3402/L Human Nutrition **Credit 3**

Medical Nutrition explores the biochemical, physiological, and clinical relevance of nutrition in the prevention, diagnosis, and management of diseases. It addresses nutritional needs across life stages, micronutrient deficiency disorders, nutritional assessments, and the role of diet in public health and therapeutic interventions.

MEDI 4021 Clinical and Community Medicine 3 **Credit 2**

This course is a continuation of Clinical Semiology covered in MEDI 3162, focusing on the identification, interpretation, and application of clinical signs and symptoms in medical diagnosis. The curriculum spans07 weeks, covering systematic approaches to physical examination, patient history-taking, and the semiological assessment of various organ systems. Students will develop clinical reasoning skills and use case-based learning to enhance their diagnostic capabilities.

MEDI 4022 Clinical and Community Medicine 4 **Credit 2**

This is an integrated course in Community and Clinical Medicine, combined with Case Studies in Medicine, that provides medical students with a foundational understanding of essential clinical and public health principles while fostering critical analytical skills through case-based learning. Students will develop core competencies in patient interaction, medical history taking, and physical examination, alongside effective communication in public health settings. Through structured case analyses, they will integrate and apply knowledge from Medical Semiology, anatomy, physiology, histology, embryology, biochemistry, and genetics to understand and compare disease processes with normal physiology. Emphasizing a holistic approach, the course utilizes small-group discussions, direct patient interactions, and real-world case studies to bridge theoretical knowledge with clinical practice, enhancing diagnostic reasoning and decision-making skills essential for future medical professionals.

MEDI 4032 Seminar 1-for Independent Research **Credit 2**

The seminar course provides a forum for the students to dispense and gain insight into the current and cutting-edge activities in medical research. The proper planning of experimental research work, scientific writing activities and data analysis will be covered.

MEDI 4051/L Pathology & Pathophysiology I **Credit 4**

This course introduces general pathological processes and altered health: cellular responses to stress and injury; inflammation and repair; hemodynamic disorders; and foundations of neoplasia, environmental/nutritional injury, and infectious mechanisms. Emphasis on mechanism → morphology → clinical correlation, with integrated lab microscopy and self-directed learning (SDL).

MEDI 4052/L Pathology & Pathophysiology II **Credit 4**

This course is a follow up of MEDI 4051pathology and pathophysiology II. This course applies the knowledge gained in anatomy and physiology to promote an understanding of the manifestations of disease, risk factors for disease, and the principles of pathology underlying illness. Students will explore the associate pathologies of the immune, endocrine, circulatory, respiratory, gastrointestinal, musculoskeletal, renal and nervous systems.

MEDI 4062 Psychology and Psychopathology **Credit 3**

This course is divided into 2 parts. The psychology section of the course introduces students to the areas of psychology relevant to medicine, and the interaction between psychological and medical principles in the development, diagnosis and treatment of medical illnesses. The Psychopathology section aims to give students a thorough and critical understanding of the most commonly-used diagnostic classification

systems and techniques for diagnostic assessment, knowledge of the causes, diagnosis and treatment of various psychological problems at varying age groups.

MEDI 4151/L Pharmacology I **Credit 4**

This course introduces the foundational principles of pharmacology, including pharmacokinetics, pharmacodynamics, receptor theory, membrane transport, and drug metabolism. It explores the interplay between the gastrointestinal microbiome, pharmacogenetics, and pharmacogenomics in modulating drug response. Students examine the pharmacology of the autonomic, cardiovascular, renal, immune, respiratory, and hematologic systems, with emphasis on mechanisms of action, therapeutic applications, adverse effects, contraindications, and drug interactions. The course also covers clinical toxicology, inflammation, immunomodulation, vaccines, antimicrobial and non-antimicrobial effects on the microbiome, and emerging therapeutic approaches. Case-based discussions and evidence-based examples are used to link basic principles to clinical decision-making and patient care.

MEDI 4152/L Pharmacology II **Credit 3**

Pharmacology 2 builds on foundational pharmacological principles to provide an in-depth exploration of drug actions and therapeutic applications in neuropharmacology and endocrine pharmacology. The course covers the pharmacodynamics, pharmacokinetics, and clinical use of agents affecting neurotransmission, including autonomic and somatic motor systems, central nervous system pathways, and neurodegenerative disorders. Topics include the pharmacotherapy of psychiatric, seizure, pain, and anesthetic management, as well as drugs of abuse and addiction.

Students will also examine endocrine pharmacology, focusing on hormonal regulation, the hypothalamic–pituitary axis, thyroid function, reproductive hormones, adrenal corticosteroids, and pharmacological management of diabetes mellitus and hypoglycemia. Through lectures, discussions, and applied case-based learning, students will develop the ability to analyze drug mechanisms, predict therapeutic and adverse effects, and formulate evidence-based treatment plans for diverse clinical scenarios.

MEDI 4161/L Physiology III **Credit 4**

Physiology III focuses on the principles and mechanisms underlying the function of the human nervous system. The course examines the electrical properties of neurons, synaptic transmission, sensory and motor pathways, autonomic regulation, higher cortical functions, and the integration of neural activity with other body systems. Teaching emphasizes the physiological basis of behavior, perception, movement, and homeostasis, supported by the use of models, demonstrations, and clinical case discussions. Students gain insight into normal neurophysiological processes as well as alterations seen in disease, providing a strong foundation for the study of pathology, pharmacology, and clinical neurosciences.

MEDI 4162/L Chemical Pathology and Haematology **Credit 4**

This course provides students with knowledge and skills in haematology. It is intended to provide students with a foundation of the theory and principles of hematology in the clinical laboratory setting, blood transfusion and bone marrow transplant. The analysis and interpretation of test results as they correlate to clinical diagnosis will be discussed. This course is integrated with a laboratory component that is student oriented and encourages active learning.

MEDI 4201/L Epidemiology and Biostatistics **Credit 3**

This course introduces students to key concepts in biostatistics and epidemiology as applied to clinical and public health decision-making. environmental health. Students will learn to collect, analyze, and interpret health data, apply statistical techniques, and assess patterns of disease in populations. Emphasis is placed on study design, basic statistical analysis, and the use of epidemiological methods to investigate environmental exposures and public health outcomes analyze clinical data through practical exercises and case studies.

MEDI 4251/L Gross Anatomy III **Credit 5**

Anatomy III provides an in-depth study of the structure and organization of the human nervous system. The course emphasizes the central, peripheral, and autonomic nervous systems, with detailed attention to the brain, spinal cord, cranial nerves, and major sensory and motor pathways. Instruction is delivered through lectures, interactive discussions, anatomical models, and imaging resources to develop a three-dimensional understanding of neuroanatomy. Students also engage in clinical case correlations to explore the anatomical basis of common neurological conditions. This course builds on foundational anatomy knowledge and equips students with the neuroanatomical framework essential for advanced study in the medical curriculum and for future clinical application.

MEDI 4261//L Molecular Medicine **Credit 4**

This course covers the organization and structure of the human genome, consequences of mutation, and an overview of selected topics in molecular medicine relevant to understanding the mechanism and development of diseases such as cancer, diabetes, vascular and coronary disease, and Alzheimer's, Parkinson's and Huntington’s disease. Infectious diseases and treatment, applied bioinformatics, drug development and use of stem cells and organoids will also be addressed. This course is integrated with a laboratory component that is student-oriented and encourages active learning.

MEDI 4452/L Immunology and Microbiology **Credit 5**

This course is divided into 2 parts. The microbiology section of the course focuses on the various groups of microorganisms, their impact on humans and the environment and various antimicrobial substances. The Immunology section focuses on the fundamental principles of immunology and immunological reactions and the body’s response to pathogenicity by providing an in-depth understanding of the body’s lines of defence including humoral and cellular immunity, control of cancers, transplant rejection, autoimmune diseases and allergy.

MEDI 5241 Research Methods and the Evidence Based Approach to Medicine **Credit 3**

This course provides students with the knowledge and skills in quantitative, qualitative, and mixed methods research designs and methods. It introduces students to the concepts of evidence-based medicine (EBM) and critical appraisal of the medical literature. The course emphasizes use of current research evidence in healthcare decision-making, and provides foundational knowledge that supports students’ abilities to describe, interpret, appraise, create, and apply this knowledge to practice.

MEDI 5242 Independent Research -Data Collection/Experiment, Defense **Credit 3**

This course provides students with hands-on experience in the design, implementation, and defense of a supervised research project. Building on prior training in research methodology, students develop the

ability to design experiments or field studies, collect and analyze quantitative and/or qualitative data, and interpret their findings using appropriate scientific methods. Emphasis is placed on ethical conduct of research, critical appraisal of evidence, and integration of findings into the broader scientific and clinical context. Students are required to present their results in both written and oral formats, including the preparation of a structured scientific paper and a formal defense before faculty and peers. Through mentorship and guided feedback, the course fosters independent inquiry, analytical rigor, and scholarly communication, consistent with CAAM-HP standards for research competency and lifelong learning.

MEDI 5281 Forensic Medicine and Toxicology **Credit 3**

This course introduces students to the principles, procedures and techniques in forensic toxicology. The basic concepts of analytical chemistry are applied to drugs and body fluid analysis.Furthermore it provides students with knowledge and skills to assess and manage poised patients.

MEDI 5291 Clinical Skills Lab **Credit 4**

The Clinical Skills Laboratory provides structured training in essential life-support competencies, including Cardiopulmonary Resuscitation (CPR), Basic Life Support (BLS), and Advanced Cardiac Life Support (ACLS). In addition, the course offers students opportunities to interact closely with clinical educators to develop, maintain, and remediate a wide range of clinical skills in a supportive environment. Using simulation, skills stations, standardized scenarios, and guided feedback, students practice history-taking, physical examination techniques, procedural skills, and clinical decision-making. Emphasis is placed on patient safety, teamwork, and communication, ensuring that students acquire competencies necessary for safe participation in supervised clinical care. This course aligns with CAAM-HP standards by integrating practical skills with professionalism, reflective practice, and continual formative feedback to support progressive competency development.

MEDI 5881 Internal Medicine I (12 weeks)

The Internal Medicine I clerkship introduces students to the principles and practice of adult patient care across inpatient and outpatient settings. Students develop foundational skills in obtaining medical histories, performing comprehensive physical examinations, formulating differential diagnoses, and initiating evidence-based management plans. Clinical training emphasizes common medical conditions and chronic disease management, with attention to patient safety, professionalism, and effective communication. Under faculty supervision, students participate in direct patient care, bedside teaching, and interdisciplinary case discussions, laying the groundwork for progressive responsibility and advanced clinical learning in Internal Medicine II.

MEDI 5931 Family Medicine (6 weeks)

The Family Medicine clerkship provides supervised clinical training in the principles and practice of comprehensive, continuous, and patient-centered care. Students are exposed to a broad range of acute and chronic conditions commonly encountered in primary care, with emphasis on health promotion, disease prevention, and evidence-based management. Clinical experiences occur in outpatient and community-based settings, where students develop competencies in history-taking, physical examination, clinical reasoning, and patient counseling. Under faculty supervision, students refine their communication skills, professionalism, and ability to manage patients across the lifespan, preparing them for progressive responsibility in family medicine and primary health care.

MEDI 5941 Patho-Microbiology laboratory Clerkship (6 weeks)
The Patho-Microbiology Laboratory Clerkship provides students with hands-on clinical experience in microbiology and pathology laboratories. The clerkship focuses on the diagnostic process, from specimen collection to microbial identification and antimicrobial sensitivity testing. Students will develop the ability to correlate laboratory findings with clinical presentations, interpret results accurately, and apply this knowledge to patient management. The course integrates bedside learning, laboratory-based analysis, and clinical problem-solving to enhance diagnostic skills and understanding of infectious diseases.

MEDI 5992 General Surgery I (12 weeks)
The Internal Medicine I clerkship introduces students to the principles and practice of adult patient care across both inpatient and outpatient settings. Students develop foundational skills in obtaining medical histories, performing comprehensive physical examinations, formulating differential diagnoses, and initiating evidence-based management plans. Clinical training emphasizes common medical conditions and chronic disease management, with a strong focus on patient safety, professionalism, and effective communication. Under faculty supervision, students engage in direct patient care, bedside teaching, and interdisciplinary case discussions, establishing the foundation for progressive responsibility and advanced clinical training in Internal Medicine II.

MEDI 6051 Anesthesia (4 weeks)
The Anesthesia clerkship provides an intensive clinical experience in the principles and practice of anesthesia and perioperative care. Students develop core competencies in airway management, patient monitoring, pain control, and the pharmacology of anesthetics agents. Clinical training takes place in the operating room, recovery unit, and intensive care settings, where students participate in supervised patient care and multidisciplinary team activities. Emphasis is placed on understanding the physiological and pharmacological foundations of anesthesia, applying evidence-based approaches to patient safety, and refining procedural and clinical decision-making skills. Simulation-based training and case discussions complement clinical rotations, enabling students to integrate knowledge with hands-on practice in preparation for progressive responsibility in patient management.

MEDI 6061 Critical Care (4 weeks)
The Anesthesia clerkship provides supervised clinical training in the principles and practice of anesthesia and perioperative care. Students develop competencies in airway management, patient monitoring, pain control, and the pharmacology of an aesthetic agents. Clinical exposure includes the operating room, recovery unit, and intensive care settings, where students actively participate in patient care under faculty supervision. Emphasis is placed on applying physiological and pharmacological knowledge to clinical practice, ensuring patient safety, and refining procedural and decision-making skills. Simulation-based training and structured case discussions complement clinical rotations, enhancing students' ability to integrate knowledge with practice and preparing them for progressive responsibility in perioperative medicine.

MEDI 6071 Psychiatry (5 weeks)
The Psychiatry clerkship provides supervised clinical training in the evaluation and management of patients with psychiatric disorders. Students develop a biopsychosocial understanding of mental health conditions, including mood, anxiety, psychotic, substance use, and personality disorders. Clinical expo-

sure includes inpatient and outpatient psychiatric services, where students gain experience in patient interviews, mental status examinations, and the formulation of diagnoses and management plans. Emphasis is placed on both pharmacological and non-pharmacological approaches, patient safety, and interdisciplinary care. Through case-based discussions and supervised patient encounters, students refine their clinical reasoning, communication skills, and professionalism, preparing them for progressive responsibility in mental health care.

MEDI 6931 Orthopedics with Radiology (6 weeks)
The Orthopedics with Radiology clerkship provides supervised clinical training in the diagnosis and management of musculoskeletal conditions through the integration of clinical assessment and diagnostic imaging. Students participate in direct patient care, bedside teaching, interdisciplinary team discussions, and structured radiology case reviews to develop core competencies in orthopedic evaluation and radiologic interpretation. Emphasis is placed on common conditions such as trauma, degenerative joint disease, congenital anomalies, and sports injuries, with attention to evidence-based management and patient safety. Under faculty supervision, students refine their clinical reasoning, procedural skills, and ability to correlate physical findings with imaging studies. The clerkship also promotes professionalism, teamwork, and communication, preparing students for progressive responsibility in clinical practice.

MEDI 6941 Accident & Emergency with Radiology (6 weeks)
The Accident & Emergency with Radiology clerkship provides supervised clinical training in the rapid assessment, diagnosis, and management of acute medical and surgical conditions. Students rotate through the emergency department and radiology services, gaining experience in triage, resuscitation, trauma care, and critical decision-making. Emphasis is placed on the integration of clinical findings with radiological imaging to guide management in time-sensitive situations. Learning activities include direct patient care, bedside teaching, trauma simulations, and interdisciplinary case-based discussions. Under faculty supervision, students refine their clinical reasoning, procedural skills, and teamwork in high-acuity settings, preparing them for progressive responsibility in emergency and acute care practice.

MEDI 6991 Obstetrics and Gynecology I (12 weeks)
The Obstetrics and Gynecology clerkship provides supervised clinical training in the care of women across the reproductive spectrum. Students develop core competencies in obtaining and interpreting gynecological and obstetrical histories, performing focused physical examinations, and participating in patient management in both inpatient and outpatient settings. Clinical exposure includes labour and delivery, operative gynecology, antenatal and postnatal care, and common gynecological conditions. Under faculty supervision, students actively engage in patient care, bedside teaching, and multidisciplinary team discussions, while refining their clinical reasoning, procedural skills, and understanding of evidence-based practices. Emphasis is placed on patient safety, professionalism, and effective communication, preparing students for progressive responsibility in women's health care.

MEDI 7011 Internal Medicine II (12 weeks)
The Internal Medicine II clerkship builds upon the foundations of Internal Medicine I, providing students with expanded knowledge and skills in the comprehensive care of adult patients. Emphasis is placed on advanced history-taking, physical examination, formulation of differential diagnoses, and the development of evidence-based patient care plans. Students participate in the supervised evaluation and management of patients across inpatient and outpatient settings, with exposure to a wide range of com-

mon and complex medical conditions. Through direct patient care, bedside teaching, and multidisciplinary discussions, students refine their clinical reasoning, professionalism, and communication skills, preparing for progressive responsibility in internal medicine practice.

MEDI 7012 Obstetrics and Gynecology II (12 weeks)
The Obstetrics and Gynecology II clerkship builds upon the foundational knowledge and skills acquired in the initial rotation, providing advanced clinical training in women's health. Students gain greater exposure to high-risk obstetrics, reproductive endocrinology, gynecological oncology, and complex surgical and medical management. Emphasis is placed on advanced history-taking, focused physical examination, diagnostic interpretation, and the integration of evidence-based practices into patient care. Clinical experiences include labour and delivery, operative gynecology, antenatal and postnatal care, and subspecialty clinics. Under faculty supervision, students assume greater responsibility in patient management, refine procedural and surgical skills, and strengthen their clinical reasoning, professionalism, and communication in preparation for progressive independence in obstetrics and gynecology practice.

MEDI 7021 General Surgery II (12 weeks)
The General Surgery II clerkship builds upon the foundations established in General Surgery I, offering students advanced clinical training in the management of surgical patients. Students deepen their knowledge and skills in preoperative assessment, operative participation, and postoperative care, with exposure to increasingly complex surgical conditions and procedures. Clinical experiences span the operating room, surgical wards, outpatient clinics, and emergency settings, emphasizing surgical decision-making, critical care, and evidence-based management. Under faculty supervision, students refine their procedural skills, clinical reasoning, teamwork, and professionalism, assuming greater responsibility in patient care. The clerkship prepares students for progressive independence and advanced competence in surgical practice.

MEDI 7042 Pediatrics (12 weeks)
The Pediatrics clerkship provides supervised clinical training in the evaluation and management of infants, children, and adolescents. Students develop core competencies in obtaining pediatric histories, performing age-appropriate physical examinations, and formulating differential diagnoses and treatment plans. Clinical exposure includes inpatient and outpatient settings, where students participate in direct patient care, bedside teaching, and interdisciplinary team discussions. Emphasis is placed on understanding growth and development, common childhood illnesses, preventive care, and the pediatrician's holistic approach to patient management. Under faculty supervision, students refine their clinical reasoning, communication skills, and professionalism while developing a foundation for progressive responsibility in child health care.

MEDI 7072 Community Health
The Community Health clerkship provides supervised training in population health, disease prevention, and health promotion. Students engage with community health agencies and public health initiatives to develop an understanding of the social, cultural, and environmental determinants of health. Clinical and field experiences emphasize preventive care, epidemiology, health education, and program implementation at the community level. Through participation in outreach activities, data collection, and multidisciplinary team discussions, students refine their ability to apply public health principles to pa-

tient care and community settings. The clerkship promotes professionalism, cultural sensitivity, and advocacy, preparing students to contribute to health systems strengthening and community well-being.

MGMT1014 FUNDAMENTALS OF MANAGEMENT **Credit 3**

MGMT0014 is a general education core course. Also, it is a required three-credit course for all students completing their associate's degree program in business science. This introductory course deals with the managerial functions of planning, organizing, leading, and controlling. It speaks to management principles, universally applicable to profit and not-for-profit organizations. The effort is made to adapt the course to suit local realities in Belize and the Caribbean.

Pre-requisite(s): NONE

MGMT2011 INTRODUCTION TO SMALL BUSINESS MGMT **Credit 3**

This course introduces students to the stages of entrepreneurial development and small business creation and management. Topics include: meeting the challenges of today's dynamic business environment, competing in global markets; forms of business ownership; entrepreneurship; motivating employees and building self-managed teams; human resource management; promoting products using interactive and integrated marketing communication; developing and pricing products and services; using technology to manage information. Course Specifics: Students will be required to construct a business plan for their new venture.

Pre-requisite(s): MGMT1014

MGMT2015 INTRODUCTION TO ENTREPRENEURSHIP **Credit 3**

This course is designed to help students develop an Entrepreneurial mindset and guide them through the process of taking Entrepreneurial Action. It makes the student understand the personal and national economic benefits of Entrepreneurship. It reviews the recent change of the Entrepreneurship Culture in Belize, through the introduction of the National Entrepreneurship Strategy, the pillars that form the Ecosystem, as well as the impact of this on the Belizean Economy. It shows the student that now is the ideal time to think of Entrepreneurship as a possible career option. It goes on to help students identify the characteristics of an entrepreneur and teaches them how to conduct their own Entrepreneurship Assessments, therefore identifying their aptitude to become entrepreneurs. It reviews and analyses successful ventures in Belize, the region, and the world. This gives the student tangible evidence of their existence and success. It goes on to guide the student through the process of generating their own business ideas in detail, then guides students through the process of identifying the potential market for the idea generated by conducting field research.

Pre-requisite(s): MGMT1014

MGMT2055 BUSINESS ETHICS **Credit 3**

This course is designed to highlight the importance of Moral Justification on the behavior of managers and will apply ethical principles in cases. It will also focus on ethical conduct in public and private organizations with regard to employees, governments, customers and society. Our goal in this course is to learn to articulate and defend informed opinions on topics of contemporary concern.

Pre-requisite(s): MGMT1014, ENGL1025

MGMT3015 ORGANIZATIONAL BEHAVIOR **Credit 3**

This course focuses on studying the factors that influence behavior in organizations and the strategies used to manage behavior at an individual, group, and organizational level. Emphasis is placed on individual perception and learning, personality and abilities, motivation, group processes and work teams, communication, decision making, power and politics in organizations, leadership, organizational

culture and organizational structure and design. Concepts and strategies are applied and (where possible) adapted within a local context through case studies, simulated exercises, individual and group assignments, tests and a final examination.
Pre-requisite(s): MGMT1014

MGMT3055 INTERNATIONAL BUSINESS **Credit 3**
This course is intended to help you understand the foundation for economic activities in the global marketplace. What impact do vanes in world events have on International Business? What effects do they have on production and trade.? Will they change our GDP? -our opportunities to produce, trade, and engage in business abroad? Will they create new opportunities for our businesses? This course is designed to focus on issues outside the firm and inside the firm that a manager needs to address. The first half of this course will focus on the global business environment, national business environments, and international trade and investment. The last half of the course concentrates on international financial systems and international business management.

MGMT3105 HUMAN RESOURCE MANAGEMENT **Credit 3**
This course will help the students understand the role of Human Resource Management in achieving organizational goals. This course covers the objectives, functions, and organization of personnel programs. The student will study in detail: the human resource functions of conducting effective job analysis; recruitment; selection, training and development; and performance appraisal. Other functions to be covered include labor relations and collective bargaining and compensation management. Students acquire a sound knowledge of the concepts and responsibilities of the human resource department and how to apply these concepts to make more efficient and effective organizations.
Pre-requisite(s): MGMT3015, MGMT2055, MGMT1014

MGMT3155 SOCIO-ECONOMIC DEVELOPMENT **Credit 3**
This course examines the phenomenon of development occurring in nations of the developing world. It introduces and exposes students to some of the main theories, issues, and concepts of development; placing focus on evolving national and regional development, attempts, and practices. Topics include: economic development; measuring economic development; evolution of economic development; financial resources for development; foreign trade and development strategy; foreign aid and direct investments; natural building blocks for development; population growth and migration; human capital; key role of agriculture in development; industry: technology and employment; the ambiguous role of the state in development. Course specifics: requires group research work and individual research work.
Pre-requisite(s): ECON2014, ECON2054, MGMT3015, SOCL1014

MGMT4015 SMALL BUSINESS MANAGEMENT **Credit 3**
This course emphasizes identification and selection of viable business opportunities focusing on stages of entrepreneurial development and operational issues unique to small business and the development of workable strategies for small business success. Topics include: selection/orientation; entrepreneurship; the opportunity: creating; shaping; recognizing; seizing; the business plan; strategy formulation; marketing function; location; layout; and physical facilities; production/operations; human resource; finance; accounting and financial analysis; risk management, and globalization. Course Specifics: Students will be required to develop a business plan based on a concrete concept and containing actual facts, which will entail interviewing and observing small business owners in their communities.
Pre-requisite(s): MGMT1014, ACTG1054, MKTG2015

MGMT 4023 Decision Making in Management **Credit 3**

This course critically examines alternative approaches to managerial decision-making, allowing you to develop insights and improve your own decision-making processes. The focus of the course is on the role and impact of modelling in decision making, including analyzing the impacts of framing; and perceptions of risk, ambiguity, complexity, conflict and uncertainty; and ways of using a range of decision models and structured decision-making approaches to enable more balanced judgments. Making decisions is a fundamental managerial task, but very often decisions are made in a fragmented way, seeing decision making as an isolated activity, and without regard to other decisions or the effects on other parts of the organization, resulting in impaired performance overall. Becoming a good decision maker is like becoming a good athlete: you need to examine the process of decision-making systematically and systemically, decide on better processes, and practice those improved methods.

MGMT 4050 - Entrepreneurship & Opportunity **Credit 3**

This course emphasizes the identification and selection of viable business opportunities focusing on stages of entrepreneurial development and operational issues unique to small businesses and the development of workable strategies for small business success. Topics include selection/orientation; entrepreneurship; the opportunity: creating, recognizing, shaping, seizing; business plan; strategy formulation; marketing function; location and layout; production/operations; human resource; financing; accounting and financial analysis; risk management and globalization. Course specifics: Students will be required to develop a business plan USING THE CANVAS FORMAT based on a concrete concept and containing facts and will entail interviewing and observing small business owners in their communities.

MGMT4051 PUBLIC ADMINISTRATION AND POLICY **Credit 3**

This course looks at the essential principles of public administration and management and develops an understanding of the influence and control of government in business affairs. It examines ”What is Public Administration?” The course also examines the structure of Belizean administrative state; organization; structure and process; human resource management and collective bargaining in the public sector; budgeting and planning; decision making; policy analysis and evaluation; regulatory administration; marketing government goods and services; and accountability and ethics. Course specifics: group presentations.

Pre-requisite(s): ECON2014, MGMT3015

MGMT4105 PRODUCTION AND OPERATIONS MGMT **Credit 3**

This senior level course examines the components/elements of the operations function, operations planning and control, and decision analysis. It focuses primarily on methods and techniques of organization and decision-making for the operations function of manufacturing and service organizations. Topics include: operations strategy; quality management; approaches to process design/selection; forecasting as a tool; inventory management; material requirements planning; scheduling; and aggregate planning. Course specifics: requires group research work and application of quantitative tools and models

Pre-requisite(s): MGMT1014, MATH2025

MGMT 4150 - Business, Government and Society **Credit 3**

This course introduces the framework, concepts and terms for examining the relationships between business and society, and the relationships between business and government. We will gain an understanding of the wide-ranging and sometimes contentious behaviors of today’s corporations as they

interact with their different stakeholders (customers, employees, shareholders, creditors, business associates, the public, activists, and government). By invoking ethics, social conscience and normative expectations, we explore concepts such as corporate social responsibility, corporate citizenship and corporate governance.

MGMT4330 - Introduction to International Business **Credit 3**

This course is intended to help you understand the foundation for economic activities in the global marketplace. What impact do vanes in world events have on International Business? What effects do they have on production and trade.? Will they change our GDP? -our opportunities to produce, trade, and engage in business abroad? Will they create new opportunities for our businesses? This course is designed to focus on issues outside the firm and inside the firm that a manager needs to address. The first half of this course will focus on the global business environment, national business environments, and international trade and investment. The last half of the course concentrates on international financial systems and international business management.

MGMT 4360 - Industrial Relations **Credit 3**

This course introduces a framework of concepts and knowledge for understanding and analysing approaches to the subject, the roles of the major participants, the issue confronting them and the strategies and processes used. The electronic edition retains the structure and focus on the Caribbean Countries. Additionally; The case studies have been thoroughly selected to reflect changes in the socio-political context of industrial relations around the world, following recent developments. Learning objectives and suggested key issues for the student to bear in mind have been introduced at the beginning of each chapter. Each chapter now concludes with a student activity, which encourages them to explore the "real world" of industrial relations.

MGMT4155 BUSINESS STRATEGY AND POLICY **Credit 3**

This senior-level core course critically examines and applies the processes, techniques and tools of strategy formulation, implementation and evaluation. Case studies of international companies and practical strategic plans for local companies, done by students in groups throughout the duration of the course, are used to assimilate strategic issues and concepts with knowledge of functional areas of management. The critical areas covered in this course include establishing company direction through its vision, mission and values; setting objectives and crafting strategy; formulating strategy; and implementing strategy through organizational capacity, structure and corporate culture. The course includes extensive case analysis, comprehensively-written individual and group assignments, group audio- visual presentations and a strategic audit and plan for a local company.

Pre-requisite(s): Final Semester course, MGMT2055, MGMT4105

MGMT4205 Undergraduate Thesis **Credit 9**

This senior level course is designed for students to utilize the skills and knowledge acquired in earlier research classes to undertake a systematic study on a contemporary research problem. The thesis is expected to be about 40-50 pages long excluding appendices. As a course requirement, students are expected to undertake an oral defense before a Thesis Panel that includes the student's thesis advisor and two other lecturers.

Pre-requisite(s): RSCH4015

MGMT4995 INTERNSHIP **Credit 9**

Fourth year students in the Faculty of Management and Social Sciences are expected to participate in a nine-week internship work experience with a recognized organization. This internship experience allows students a broader educational experience in which they apply classroom theory and principles to real organizational situations. The internship affords students the opportunity to enhance professional skills such as planning projects, preparing proposals and projects and developing interpersonal skills such as teamwork, communication and leadership. This is a Pass/Fail course. Course Specifics: Reports and Exit Interview required.

Pre-requisite(s): Senior Standing and Departmental Approval.

MGMT5000- LEADING PEOPLE IN ORGANIZATIONS **Credit 3**

This workshop is designed to sensitize learners to the importance of leadership in the development and growth of an organization and the effective engagement of resources. It is necessary because of the mixed entry levels to the MBA programme. Some entrants may have clearly defined leadership positions, others while senior and indeed are in leadership positions, are not titled as such and others may not have had much exposure to leadership practice in a formal setting.Consequently, there is sometimes a difference of opinion among learners at this level between managing and leading in an organisational context. The MBA programme simulates an organization and will serve as a practice arena for leadership skill development. Additionally, the workshop is also intended to instill in the learners that in this programme they are in a leadership role and are required to take responsibility for their development through assisting in the development of their peers.

Pre-requisite(s): NONE

MGMT5001- INNOVATIVE PRACTICES AND CAREERS **Credit 3**

Students will learn techniques for improving the flexibility and originality of their thinking and will explore approaches used by managers and organizations to create and sustain high levels of innovation. Topics include: personal thinking preferences, everyday creativity and eliminating mental blocks, creative thinking techniques, idea selection approaches, teaming techniques for creativity, conditions that promote creativity, design for interaction, disruptive technologies, and intellectual property.Additionally, will inform you on the viable career options you gain after the MBA.

Pre-requisite(s): NONE

MGMT5101 MANAGING ORGANIZATIONAL BEHAVIOR **Credit 3**

This course explores human dynamics by examining the role of management and learning styles in the effective functioning of organizations. Topics include personality types, motivation, cognition and learning, communication, team development, and leadership. Through class discussions, case analyses, simulations, and group projects, students learn critical managerial skills such as communication, decision making, conflict resolution, and team building.

MGMT5151 OPERATIONS AND SUPPLY CHAIN MANAGEMENT **Credit 3**

Upon finalizing this course, students will have an understanding of the strategic importance of Operations Management and Supply Chain Management. They will study the role of operations in creating competitive advantage and profitability in an organization, as well as in developing long-term sustainability within society. In addition, students will learn to structure the flow of personnel, materials, costs and information which are necessary to achieve desired productivity and value. The course will cover specific topics including process design, capacity planning, facilities location and design, application of forecasting in operations, aggregate planning, inventory management, ERP, project management, and quality management. The structure of the knowledge is organized under the

supply chain requirements of the organization and its stakeholders.

MGMT5153 MANAGING PEOPLE IN ORGANIZATIONS **Credit 3**

The main objective of this course is to reflect on Human Resource policies from a systemic, global management perspective, considering critical elements, analyzing the contribution required to generate competitive advantage for an organization and the ways in which these contributions can be optimized through Managing People at Work. The course will provide students with an understanding of contemporary HRM and the important strategic role that it plays in helping an organisation build and maintain competitive advantage. More specifically, the course will examine HR policies, practices, and systems in the areas of: planning and recruitment; ethical and legal frameworks for HR; employee selection; training and development; performance management; compensation; employee relations; diversity management; OH&S; employee separation; and HRM in a global environment.

MGMT6101 PROJECT MANAGEMENT **Credit 3**

This course is designed for managers and decision-makers with overall reporting responsibility for a wide variety of projects. It provides comprehensive exposure to the fundamentals of project management. This course investigates the increasing use of projects to accomplish limited duration tasks in many organizations and the unique style of administration required to manage them.

MGMT6151 ENTREPRENEURSHIP AND NEW VENTURE CREATION **Credit 3**

This course provides an overview on the principles of entrepreneurship. It is designed to introduce students to the core concepts and tools used to increase the likelihood of organizational success in launching and managing new ventures both in the for-profit and nonprofit sectors. Students will be required to develop and present a business plan for a new venture, including the production of market research, organizational needs, and financial statements to support an investment in the enterprise.

MGMT6201 CORPORATE AND COMPETITIVE STRATEGY **Credit 3**

This course is based on industry analyses and the methods by which an organization can be positioned so as to optimize competitive advantage. This process implies careful market selection and the examination of the role of the organization within the value chain. Students will also learn to conduct strategic analysis of diversified corporations.

MGMT6995 BUSINESS RESEARCH PROJECT/THESIS **Credit 6**

This course is designed to provide students with the necessary skills and knowledge to determine the information necessary to address an identified research problem (pure or applied) and, using this understanding, to develop a Thesis. They are required to engage their theoretical knowledge, draw on their experience in the workplace, and reflect on the learning that took place within the entire MBA programme by conducting research on an organization and providing practical solutions for organizational problems. Topic is selected by the student and is subject to faculty approval. The work uses a student's analytical and communication skills and cross-discipline expertise. Learning occurs through professor coaching and feedback and preparation and presentation of a final thesis.

MIDW3101 INTRODUCTION TO MIDWIFERY **Credit 3**

This course introduces the student midwife to the basic concepts underlying the study and practice of Midwifery in Belize. Topics include: orientation to midwifery and history of midwifery, role of the midwife in Belize, concepts and theories, ethical and legal issues in family care, research methods and the Belizean family.

Pre-requisite(s): BSN

MIDW3151 NEEDS OF CLIENT, SIGNIFICANT OTHER AND FAMILY IN PRENATAL PERIOD **Credit 5**

This course focuses on the scientific knowledge and skills necessary for the comprehensive management of the pregnant woman and family during the prenatal period. Topics include: anatomy and physiology of the male and female reproductive systems; physiology of pregnancy; intrauterine growth and development; psychosocial needs during pregnancy and health maintenance during pregnancy.

Pre-requisite(s): BSN

MIDW3151L NEEDS OF CLIENT, SIGNIFICANT OTHER AND FAMILY IN PRENATAL PERIOD LAB **Credit 1**

This module consists of five (5) units which focus on human reproduction and the development of student midwife's knowledge and skills in applying the nursing process in meeting the total needs of the pregnant client and significant other, and family during the prenatal period.

Pre-requisite(s): BSN

MIDW3201 NEEDS OF CLIENT, SIGNIFICANT OTHER AND FAMILY IN INTRANATAL PERIOD **Credit 3**

This course provides the knowledge and skills required in the management of the patient throughout the process of normal labor and delivery. Topics include: the physiology of labor, management of labor and delivery and the immediate care of the newborn.

Pre-requisite(s): BSN

MIDW3201L NEEDS OF CLIENT, SIGNIFICANT OTHER AND FAMILY IN INTRANATAL PERIOD LAB **Credit 1**

This course focuses on providing the student midwife with the necessary knowledge and appropriate skills required to competently manage the client during the process of normal labour and delivery.

Pre-requisite(s): BSN

MIDW3251 NEEDS OF CLIENT, SIGNIFICANT OTHER AND FAMILY IN POSTNATAL PERIOD **Credit 2**

This course focuses on the knowledge and skills required for the management of the client and family during the postnatal period. Topics include: physiology of the postnatal period, management of the client in the postnatal period, minor conditions occurring in the postnatal period and psychological needs of the client and family during the postnatal period.

Pre-requisite(s): BSN

MIDW3251L NEEDS OF CLIENT, SIGNIFICANT OTHER AND FAMILY IN POSTNATAL PERIOD LAB **Credit 1**

This course focuses on providing the student midwife with the necessary knowledge and appropriate skills required to competently utilize the nursing process in the management of the patient during the postnatal period.

Pre-requisite(s): BSN

MIDW3302 NEEDS OF NORMAL NEONATE **Credit 2**

This course prepares the student midwife with the knowledge and skills to care for the normal newborn following normal labor and delivery so as to detect abnormal conditions and make appropriate referrals. Topics include: characteristics of the normal neonate, physiological adjustment to extrauterine life, responsibilities in preparation and reception of the neonate and minor conditions which may occur in the neonate.

Pre-requisite(s): All CMID semester 1 Courses

MIDW3302L NEEDS OF NORMAL NEONATE LAB **Credit 1**

This course focuses on providing the student midwife with the necessary knowledge and appropriate skills required to competently manage the care of the normal neonate, identify abnormalities and make appropriate referrals.

Pre-requisite(s): All CMID semester 1 Courses

MIDW3352 THE COMMUNITY **Credit 4**

This course provides the student midwife the knowledge and opportunity to work with the community health team focusing on the Maternal and Child Health Services and improvement of management skills. Topics include: maternal and child health services, techniques of home visiting, education, counseling and follow-up care for the pregnant client and family and the application of the principles of management in caring for the pregnant client and family.

Pre-requisite(s): All CMID semester 1 Courses

MIDW3992P SUPERVISED CLINICAL EXPERIENCE I **Credit 10**

The clinical practicum aims to implement the theoretical component of the course. The focus for the practicum is normal pregnancy, labor, postpartum and the newborn. It provides the opportunity to observe, and participate in care of the woman, family and newborn under supervision of the Sister-in-Charge, Clinical Instructors and Midwives. Students are placed in a variety of settings at both hospitals and health centers. The time frame for each are: Health Centers- three (3) weeks, Labour & Delivery- five (5) weeks and Maternity Unit- two (2) weeks. At the end of the ten (10) weeks of supervised clinical experience, the student midwife will be proficient in the knowledge and skills necessary in delivering competent and comprehensive quality care to the client, applying the nursing process during the prenatal, intranatal, and postnatal periods.

Pre-requisite(s): All CMID semester 1 and II Courses

MIDW3451 NEEDS OF PREGNANT CLIENT WITH COMPLICATIONS **Credit 6**

This course prepares the student midwife to recognize signs of complications and provides an understanding of the factors which cause maternal complications of pregnancy during pregnancy, labor, delivery, and the post-natal period. Topics include: high risk conditions of pregnancy; high risk conditions of the intranatal and postnatal period.

Pre-requisite(s): All CMID semester 1 and II Courses

MIDW3451L NEEDS OF PREGNANT CLIENT WITH COMPLICATIONS LAB **Credit 1**

This course focuses on preparing the student midwife with essential skills necessary to assist in the management of clients with complications and make necessary referrals. The student midwife will have a better understanding of the conditions occurring in labour which place the mother and fetus at risk.

Pre-requisite(s): All CMID semester 1 and II Courses

MIDW3501 NEEDS OF NEONATE WITH COMPLICATIONS **Credit 3**

This course provides the student midwife with knowledge and skills in the management of the neonate

with complications. Topics include: conditions which cause complications in the neonate, management of the neonate of high-risk mothers, management of the neonate delivered by Caesarean section and management of the neonate with congenital anomalies. Preventative measures for birth injuries are emphasized.
Pre-requisite(s): All CMID semester 1 and II Courses

MIDW3501L NEEDS OF NEONATE WITH COMPLICATIONS LAB **Credit 1**
The course provides student midwife the opportunity to develop psychomotor skills in meeting the needs of the neonate with complication.
Pre-requisite(s): All CMID semester 1 and II Courses

MIDW3993P SUPERVISED CLINICAL EXPERIENCE II **Credit 16**
This06-week practicum course provides the opportunity to apply acquired knowledge and skills to provide midwifery care under supervision throughout the childbearing cycle. Students provide care for both normal and high-risk clients. Emphasis is placed on the midwife's role in collaborating with the physician in the management of high-risk clients. Course specifics: Students work 8-hour shifts for five (5) days over a sixteen (16) week period.
Pre-requisite(s): SUCCESSFUL COMPLETION OF ALL CMID COURSES

MKTG2015 PRINCIPLES OF MARKETING **Credit 3**
This Principles of Marketing course provides a comprehensive introduction to the dynamic world of marketing. Students will explore fundamental marketing concepts, philosophies, and tools, with a focus on understanding customer needs and creating value in today's global markets. The course emphasizes a customer-centric, opportunity-seeking approach to strategic planning. Through a combination of theoretical learning, case studies, group projects, and practical exercises, students will develop the skills to analyze markets, identify opportunities, create unique product/service ideas, and build a comprehensive marketing plan.
Pre-requisite(s): MGMT1014, ENGL1025

MKTG2052 CUSTOMER SERVICE **Credit 3**
This introductory course is designed to sensitize students to the crucial role that quality customer service plays in the success of organizations. The importance of delivering quality customer service consistently will be emphasized. Strategies and techniques designed to maintain and exceed customer expectations and thereby enhance customer value and build customer loyalty will be examined. Course Topics: Students will be required to present and defend a research paper on an assigned topic.
Pre-requisite(s): TOUR1014

MKTG4015 - Marketing Management **Credit 3**
Marketing Management is a sequel to MKTG2015 Principles of Marketing with an emphasis on decision making. The core concepts include defining customer needs, analyzing markets, target marketing, planning and techniques and marketing mix strategies. Specific attention is placed on strategic management principles that are pertinent to the marketing management process.

MKTG4025 - International Marketing Management **Credit 3**
This course introduces you to the international (global) dimension of marketing. It is designed to provide you with a fundamental understanding of the nature and scope of international marketing. At the most basic level, international marketing requires us to make adjustments to our traditional marketing strategies. These adjustments are necessary to meet the challenges of different international environ-

ments. Consequently, the two main topical areas that we will be covering are the international marketing environments (e.g. culture, political, economic) and the marketing mix strategies.
Emphasis will be placed on strategic thinking rather than the technical aspects. In addition, employers of college graduates recently have pointed to the importance of the ability to communicate ideas clearly and concisely. These skills are an important part of your education and an additional objective of this class will be to help you develop your analytical and writing skills.

MKTG4030 - Consumer Behavior **Credit 3**

Consumer Behaviour draws on the theories and concepts of psychology, economics, sociology, social psychology, and cultural studies to help students to better understand, predict and influence the process of consumption. The course will cover topics such as consumer perception, motivation, learning, attitudes and attitude formation and change. Consumer Behaviour will also consider the impact of socialization, groups and culture on consumption activity and practice. The theories of consumer decision making will also be presented. Throughout the course, students will be required to link the psychological and social theories of consumption and consumer behaviour presented to the practice of the Marketing concept and to marketing strategy development and assessment.

MKTG4035 - Integrated Marketing Communication **Credit 3**

This is an advanced course designed to give students a strong theoretical background in advertising management issues and a practical understanding of the elements in marketing communications plans that can help marketers achieve their objectives.
Pre-requisite(s):

MKTG4115 - Marketing Research **Credit 3**

Marketing Research focuses on the critical role and importance in marketing. The course will cover the fundamental concepts of marketing research in traditional and digital environments. It will also examine how these can be used to assist companies in their decision-making process.

MKTG4125 Digital Marketing **Credit 3**

Digital Marketing is the 21st century's innovation to marketing. It is known as electronic marketing, online marketing, or social media engagement among other descriptions.It is a direct offshoot of the electronic era which gives it prominence and sustainability as it will flow with the tide of IT development and cyber commerce. It requires users with computer technology knowledge and skills, as well as knowledge of marketing as a discipline. The professional digital marketer has a broad knowledge of internet technology from a user perspective, has a good command of standard language and good communication skills.
Pre-requisite(s):

MKTG6101 - MARKETING STRATEGY AND PLANNING **Credit 3**

This course aims to offer an understanding of the nature and role of marketing in the firm and in the society. Students will gain knowledge regarding the marketing decisions of price, place, promotion, product, develop an understanding of consumer behavior, market research, social and cultural factors affecting marketing. The course will expose students to a series of marketing principals, frameworks, and analyses. These techniques will be applied to a series of case studies to reinforce the concepts.At the end of the course the students should be able to develop effective marketing plans for products and

services.
Pre-requisite(s):

BMLS2052/BMLS2052L – Introduction to Medical Laboratory Science (4=3+1 credits)
This course is an orientation to the profession of Medical Laboratory Technology. It introduces the student to the terms, concepts, procedures, and equipment used in the clinical laboratory. Topics include: professional ethics and regulation, licensing and accreditation processes, basic laboratory safety, use and care of equipment, basic medical laboratory techniques; phlebotomy and specimen processing, basic concepts and applications of quality assurance; process improvement; documentation; and point of care testing.
Course specifics: lab component required.

BMLS3502 – Molecular Methods Credit 3
This course introduces the fundamentals of molecular biology and explores the use of molecular techniques for the diagnosis of disease. Topics include: nucleic acid structure and methods, information transfer and regulation; genetic disorders and infectious diseases; DNA extraction and quantization; restriction enzyme digestion; polymerase chain reaction and agarose gel electrophoresis.

BMLS3051/BMLS3051L – Applied Clinical Immunology (3=2+1 credits)
This course examines the basic principles and concepts of immunology and the practical application of these to serological diagnosis of diseases. Topics include: Nature of the immune system, autoimmunity, basic immunological procedures, immunodeficiency conditions, neoplasms of the immune system, inflammation and immune-mediated diseases, transplantation immunology and cancer immunology.
Course specifics: lab component required.

BMLS3101/BMLS3101L – Instrumentation in medical laboratory science (3=2+1 credits)
This course offers a theoretical description & practical demonstration of the basic principles and techniques involved in using apparatus and electronic equipment in the clinical laboratory. The course introduces techniques and procedures for routine analysis using photometric, potentiometric and separation techniques in the clinical laboratory.

BMLS3151/BMLS3151L – Urinalysis and body fluids (3=2+1 credits)
This course examines the theory of renal function, formation, composition and elimination of urine and various body fluids. It focuses on the collection of specimens, chemical analysis and microscopic examination of urine and body fluids, the interpretation of urinary elements and the correlation with normal/abnormal physiology.

BMLS3201/BMLS3201L – Medical parasitology (3=2+1 credits)
This course will provide introduction to the general biology of parasitic protozoans, helminthes and arthropods of human and domestic animals. It will emphasize the morphology, form and function, life cycles, symptomatology, and pathogenesis of major parasites or their representative taxa. It will also focus on common pathogenic parasites, methods of identification, treatment and control of parasitic infections, impact of parasites on humans and application of parasites in pure and applied research.

BMLS3251/BMLS3251L – Histopathology (3=2+1 credits)

Histopathology and Cytopathology are components of Anatomical Pathology. Anatomical Pathology, and by extension, Histopathology/Cytopathology, is the field of pathology that deals with structural changes in tissues/cells in disease. This course provides a sound understanding of the role of diagnostic laboratories in the diagnosis of various disease states and in-patient care and management. This course will provide further understanding of the microscopic structure, organization and function of human cells and tissues and develop expertise in the techniques used for their processing, staining and microscopic study. It will also focus on developing theoretical knowledge and practical skills required for histopathological techniques and cytological interpretation and diagnosis in a variety of specimens.

BMLS3302/BMLS3302L – Applied Clinical Hematology I (4=3+1 credits)

This course will review the hematopoietic system of the human body from the unique viewpoint of the clinical laboratory. Emphasis is placed on the relationship of hematological disease states to their diagnostic features. Topics covered include erythrocyte disorders, leukocyte disorders, blood and bone marrow cellular morphology, theory and disorders of hemostasis and instrumentation applications specifically related to the clinical hematology and hemostasis laboratory. The laboratory will focus on clinical hematology and coagulation techniques including methods of patient blood specimen preparation, erythrocyte, leukocyte, and thrombocyte identification and enumeration microscopically and special tests and stains.

BMLS3352/BMLS3352L – Applied Clinical Immunohematology I (3=2+1 credits)

The Course will review the hematopoietic system of the human body from the unique viewpoint of the clinical laboratory. Emphasis is placed on the relationship of hematological disease states to their diagnostic features. Topics covered include erythrocyte disorders, leukocyte disorders, blood and bone marrow cellular morphology, theory and disorders of hemostasis and instrumentation applications specifically related to the clinical hematology and hemostasis laboratory. The laboratory will focus on clinical hematology and coagulation techniques including methods of patient blood specimen preparation, erythrocyte, leukocyte, and thrombocyte identification and enumeration microscopically and special tests and stains.

BMLS3402/BMLS3402L – Applied Clinical Chemistry I (4=3+1 credits)

This Course provides theoretical knowledge of the principles of analytical techniques and procedures used in a clinical chemistry laboratory. Emphasis will be on biochemical aspects, clinical correlation, significance, specimen processing, analysis and reporting of patient test results.The course covers areas unique to clinical chemistry laboratories and related to professional performance. The laboratory section covers skills necessary to the performance of clinical chemistry test procedures for carbohydrates, enzymes, renal and liver function tests, proteins, lipids, non-protein nitrogenous compounds, blood gases and pH, and electrolytes.

BMLS3452/BMLS3452L – Applied Clinical Microbiology I (5=3 + 2 credits)

The theory and pathogenesis of clinical microbiology as related to diseases of humans. Topics include clinical signs and symptoms of these diseases; proper methods for collection, transportation and processing of clinical specimens; reporting of significant isolates; quality assurance policies/procedures and laboratory safety.

BMLS3553 – Laboratory Management **Credit 2**

This course provides knowledge and techniques required to supervise and manage clinical laboratory facilities. Topics covered in this course include: basic management concepts, laboratory information systems, role and responsibilities of a supervisor, personnel management, leadership and communication skills, ethics in the clinical laboratory, quality management systems, policies and procedures, and finance and budgeting.

BMLS3993 – Clinical Internship I **Credit 3**

Medical Laboratory Science (MLS) Internship0 offers a 2-month full-time program that covers laboratory posting and instruction on the assigned affiliated clinical laboratory site off-campus. Completion of the internship program0 is required for eligibility for continuation in the BMLS Program. It provides students with the basic and introductory theoretical and practical skills necessary to work in hospitals, clinics, private medical laboratories or biomedical research environments. The program emphasis is on specimen collection, phlebotomy, and laboratory instrumentation, accessioning, data management, and retrieval and right core professional ethics.

BMLS4051/BMLS4051L – Applied Clinical hematology II **(4=3+1 credits)**

The Course is the second part of a two-part course. The course focuses on the hematopoietic system of the human body from the unique viewpoint of the clinical laboratory. Emphasis is placed on the relationship of hematological disease states to their diagnostic features. Topics covered include erythrocyte disorders, leukocyte disorders, blood and bone marrow cellular morphology, theory and disorders of hemostasis and instrumentation applications specifically related to the clinical hematology and hemostasis laboratory. The laboratory will focus on clinical hematology and coagulation techniques including methods of patient blood specimen preparation, erythrocyte, leukocyte, and thrombocyte identification and enumeration microscopically and special tests and stains.

BMLS4101/BMLS4101L – Applied Clinical immunohematology II **(3=2+1 credits)**

The Course is the second part of a two-part course. Emphasis is placed on the relationship of hematological disease states to their diagnostic features. Topics covered include erythrocyte disorders, leukocyte disorders, blood and bone marrow cellular morphology, theory and disorders of hemostasis and instrumentation applications specifically related to the clinical hematology and hemostasis laboratory. The laboratory will focus on clinical hematology and coagulation techniques including methods of patient blood specimen preparation, erythrocyte, leukocyte, and thrombocyte identification and enumeration microscopically and special tests and stains.

BMLS4151/BMLS415L – Applied Clinical chemistry II **(4=3+1 credits)**

This Course provides theoretical knowledge of the principles of analytical techniques and procedures used in a clinical chemistry laboratory. Emphasis will be on biochemical aspects, clinical correlation, significance, specimen processing, analysis and reporting of patient test results.The course covers areas unique to clinical chemistry laboratories and related to professional performance. The laboratory section covers skills necessary to the performance of clinical chemistry test procedures for carbohydrates, enzymes, renal and liver function tests, proteins, lipids, non-protein nitrogenous compounds, blood gases and pH, and electrolytes.

BMLS4201/BMLS4201L – Applied Clinical microbiology II **(5 = 3+2credits)**

This is a continuation of BMLS3452 with particular emphasis on antibiotic susceptibility & drug resistance, anaerobic bacteria, fungi and viruses. It also focuses on the principles and methodologies for the recovery of bacterial, fungal, parasitic and viral agents of disease from complex biological specimens, biochemical identification, and advanced principles in clinical sensitivity and specificity. In addition, it addresses the integration and evaluation of cognitive material with clinical laboratory results and diagnostic strategies using classical, serological and molecular techniques.

The theory and pathogenesis of clinical microbiology as related to diseases of humans. Topics include clinical signs and symptoms of these diseases; proper methods for collection, transportation and processing of clinical specimens; reporting of significant isolates; quality assurance policies/procedures and laboratory safety.

BMLS4251 Supervised clinical research **Credit 3**

This course allows students to apply the research process and methods, and assist in the development of problem-solving skills. It provides experiential opportunities to critically evaluate clinical laboratory literature and apply this knowledge to the clinical laboratory setting and scientific research work. At the completion of this course students will possess knowledge, skills and relevant experiences in research design and practice sufficient to evaluate published studies as an informed consumer.

BMLS4992 INTERNSHIP **Credit 8**

The internship is a learning experience that serves as a culminating enrichment activity for the University of Belize BMLS training. While being in an actual patient setting, the BMLS student has an opportunity to apply and practice the knowledge, skills and professional attitudes he/she has acquired in the classroom and student laboratory. Each clinical affiliate laboratory offers a wide menu of laboratory testing and uses up to date instrumentation. Experienced technologists teach student interns how to organize a workload, assess specimen quality, operate and maintain instrumentation, perform assays, and validate test results as he/she rotates through the departments of the clinical laboratory.

The student will observe different aspects of modern laboratory operations, and under the supervision and discretion of the clinical affiliate faculty, will be permitted to perform and/or practice routine procedures. These clinical affiliate laboratories donate employee time, supplies, and patient specimens to help educate new members of the profession.

EMUS2153 MUSIC EDUCATION **Credit 3**

This course aims at providing teachers with basic music concepts, practical ideas and methodology for a clear under- standing of, and active participation in musical expression, through personal experience on three levels: listening, performing and creating. This course is practical in nature and the teaching method will reflect one that can be implemented in the classroom.

Pre-requisite(s): NONE

NRMP1014 ENVIRONMENTAL CONSERVATION AND DEVELOPMENT **Credit 3**

This is an introductory level course intended to provide non-science students with a general introduction to topics typically discussed in the fields of environmental science and conservation with an emphasis on sustainable development. Major topics discussed in this course include: ecosystems; sources and solutions to environmental impacts; advantages and disadvantages of renewable and non-renewable sources of energy; environmental hazards and human health; and pollution.

Pre-requisite(s): NONE

NRMP1151 FUNDAMENTALS FOR ENVIRONMENTAL MANAGERS **Credit 3**

This course provides students with a general introduction to topics typically discussed in the fields of environmental science and conservation with an emphasis on sustainability. Major topics discussed in this course include: basic principles of ecology, investigation of sources and solutions to environmental impacts and challenges that result from human activities. It focuses on global and local examples of human and ecosystem interactions and proposes ways that we may achieve more balanced lifestyles that respect the ecological structure, function and dynamics of Earth's ecosystems for a sustainable future.

Pre-requisite(s): High School Biology and Chemistry

NRMP2201 INTRODUCTION TO MARINE ECOLOGY **Credit 3**

This course explores the interaction and interconnectedness among marine organisms and their physical environment, physical, chemical and biological aspects of nutrient cycles, energy flows within inter-tidal, sub-tidal and deep ocean environments and the influence of human activities within marine ecosystems. Topics include: basic oceanography; plankton and plankton communities; interstitial ecology; intertidal and subtidal ecology; mangroves; seagrasses; coral reefs; estuaries; deep sea ecology; symbiosis; oceanic nekton; human impacts on the marine environment; marine research and monitoring.

Pre-requisite(s): NRMP101

NRMP2251 INTRODUCTION TO RECREATION **Credit 3**

This course enables students to analyze and evaluate concepts, problems and methods associated with recreational resource management. Topics include: human need for recreation; history of commercial recreation; various recreational activities available locally and regionally; planning, developing and marketing recreation; assessment of environmental and cultural impacts of current management of recreational activities; planning and management of recreational resources; land, leisure and dynamic interactions between recreation visitors and facilities.

Course specifics: Field Trip.

Pre-requisite(s): NRMP1151

NRMP2301 INTRODUCTION TO GEOLOGY **Credit 3**

This course introduces the student to the origin, structure, and components of the Earth, basic physical and chemical geological processes, and environmental geology issues and challenges. Topics include: introduction to the study of the earth; general physical geology; structure of the earth; the rock cycle; effects of the hydrologic cycle; energy from the earth; economic geology; geologic hazards; the impact of human activities; focus: regional and Belize.

Course specifics: required lab component; field trip.

Pre-requisite(s): NRMP1151 OR ENVR1162

NRMP2351 WASTE MANAGEMENT **Credit 3**

This course focuses on solid and liquid waste composition, storage, and collection, conventional and alternative treatments, disposal, reduction, reuse and recycling of waste materials. Topics include: defining waste management; waste problem awareness; solid wastes; wastewaters: environmental problems and waste resources; agricultural wastes: pesticides; atmospheric wastes; hazardous wastes; exploring the waste management industry; bioremediation systems; waste issues in tourist and retirement industries; waste management at the regional and global scales.

Course specifics: field trip required.

Pre-requisite(s): NRMP1151

NRMP2402 PROTECTED AREAS MANAGEMENT **Credit 3**

This course provides a detailed review of the conditions of terrestrial and marine protected areas of Bel-

ize and the region, examines current integrated management policies for effectiveness, discusses strategies, goals, plans, resources and community participation necessary for the successful implementation of effective protected areas management. Topics include: Definition and roles of Protected Areas. Uses and Threats to the Environment and Resources. Legislative and Institutional Support. Planning a System of Protected Areas. Site Planning and Management. Protected Areas in Different Environments. Protected Areas Research and Monitoring. Tools. Case Studies. Field trip.
Pre-requisite(s): NRMP2251
Co-requisite(s): NRMP2452

NRMP2452 TERRESTRIAL MANAGEMENT ISSUES **Credit 3**
This course covers various aspects of terrestrial management issues. Topics include: survey of issues resulting from human activities; threats to earth's landscapes; evaluating threats and underlying causes; theory and concepts of landscape and terrestrial ecology; human impacts on ecosystems; solutions to impacts; identifying, describing and assessing terrestrial ecosystems; terrestrial area conservation and management; the future of Belize's terrestrial ecosystems. Course specifics: field trip required.
Pre-requisite(s): NRMP1151 & BIOL1015

NRMP2502 ENVIRONMENTAL ASSESSMENT **Credit 3**
This course introduces procedures for conducting standard rapid ecological assessments, environmental impact assessments, human impact mapping, rapid biological assessments and other protocols widely used in environmental assessment and monitoring activities. Students will review finished documents and take part in applying some of the protocols introduced at active project sites. Topics include: history of REA development; defining parameters; uses of REAs; REA process and planning; mapping technologies; REA mapping process; field surveys; assessing threats; writing and publishing the REA report; the future of REA; REA case studies from Belize; introduction to EIA.
Course specifics: field trip required.
Pre-requisite(s): NRMP2201 & NRMP2301

NRMP2552 HOSPITALITY AND TOURISM **Credit 3**
This course discusses the various expectations and interactions between the tourist industry, tourists (consumer relations, cross-cultural communications, tourist expectations), society, service providers and the community. The course will prepare the students to interact with the tourists as well as to relate and communicate effectively with various members of the tourism sector. Topics include: career opportunities; Belize's tourism sector: global and regional context; hospitality and related services; organizations in the distribution process; attraction, recreation, entertainment; cultural and international tourism for life; sociology of tourism; challenges facing Belize's tourism sec- tor; tourism economic impact; tourism policy, planning, and the environment; travel and tourism research; tourism marketing; tourism's future. Course specifics: field trip required.
Pre-requisite(s): NRMP1151

NRMP3151 PROFESSIONAL SKILLS FOR ENVIRONMENTAL MANAGERS **Credit 3**
This course provides students with several skills and techniques used in natural resource management. Topics include: environmental education outreach and advocacy; design and conduct of environmental research; data acquisition, handling, analysis, and presentation; technical proposal, report and presentation preparation; professional and persuasive presentation skills; importance of team work, team building and partnerships; use of basic negotiation skills for conflict resolution; communication, interviewing; basic components of project management; roles of other natural resource management tools: environmental impact assessments and geographic information systems; lifelong learning and professional development in the field.

Pre-requisite(s): NRMP1151, ENGL1025 & ENGL1035

NRMP3202 ENVIRONMENTAL SEMINAR **Credit 1**

This course focuses on discussion and analysis of a selected set of contemporary environmental and natural resources management issues in Belize and around the world. Students discuss, debate and write on these issues as they are presented by guest speakers.

Pre-requisite(s): NRMP1151

NRMP3252 WATERSHED ECOLOGY AND MANAGEMENT **Credit 3**

This course examines the movement of surface and ground waters through the landscape. Topics include: the larger integrated interactions of terrestrial and aquatic ecosystems; the overall ecological services provided by watersheds; the impact of human activities on watershed structure; function and prevention.

Pre-requisite(s): NRMP2351, NRMP2452, NRMP2301

NRMP3302 ENVIRONMENTAL PROJECT MANAGEMENT **Credit 3**

This course examines the project cycle, its components and applications. Topics include: introduction to project management; the project management framework; project planning; implementation; project management policy, control, and analysis, software; project communication tools and techniques (PERT) (CPM); project team building; project closure and evaluation; dissemination of results; relationship between project organization and project environment; Belize project cycles; funding opportunities.

Course Specific: Project Management software.

Pre-requisite(s): NRMP3151 & MGMT1014

Co-requisite(s): MATH3012

NRMP3351 ENVIRONMENTAL LAW AND POLICY **Credit 3**

The course exposes students to the processes and organizations involved in setting environmental policies and legislation within Belize and the region. Topics include: environmental legislation of Belize; international agreements; conventions and treaties; effectiveness and shortcomings of the legislative process and enforcement.

Pre-requisite(s): NRMP1151 & PHIL1014

NRMP3401 GIS FOR NATURAL RESOURCE MANAGERS **Credit 4**

This course focuses on the application of GIS in environmental management. Topics include: key components of GIS: data capture, management, analysis, manipulation and output; practice using hand held GPS units; lecture and practical sessions for: data capturing techniques, spatial data, data models, cartographic techniques, GIS design, implementation; issues associated with managing a GIS project.

Pre-requisite(s): NRMP2502 CMPS1014

NRMP4153 FIELD METHODS AND ASSESSMENT **Credit 4**

This 2-week field course focuses on the main methods involved in conducting both rapid and long term field sampling and assessment of terrestrial and marine resources. Topics include: transect sampling; collection and identification in various ecosystems and key taxa; specific methods for assessing health and integrity of marine; freshwater and terrestrial ecosystems; oceanography sampling; mangrove assessment; seagrass assessment; coral reef assessment; fisheries-based sampling; vegetation assessment and sampling; mammal surveys; bird netting and banding; fresh- water assessment. Course specifics: 2-week field-based course:0-week marine field station, 1-week terrestrial field station, Students will develop and conduct a research project using accepted and standard field methods.

Pre-requisite(s): NRMP3401 & MATH3012

NRMP4201 INTRODUCTION TO METEOROLOGY **Credit 3**

This course provides fundamental knowledge of physical meteorology, hydrology, agro-climatology and weather phenomena. Topics include: introduction to earth science: the solar system and atmospheric processes on earth; introduction to physical meteorology; tropical meteorology; weather myths, facts, and fallacies; agro-climatology; climate change and desertification/droughts; natural disasters and regional impacts; introduction to hydrology.

Course specifics: field trip required.

Pre-requisite(s): NRMP1151 & MATH3012

NRMP4251 ENVIRONMENTAL ECONOMICS **Credit 3**

This course surveys a wide range of issues relating to natural resource and environmental policy, including broader topics such as poverty and natural resources, natural resource accounting and valuation of ecological systems. Topics include: environmental economics: basic economic concepts, value systems and economic systems, the economics of market allocation; externalities: why markets fail to protect environmental quality; economics of natural resource systems; pricing the environment: measurement: analysis of benefits and costs; political economy of environmental regulation and resource management; environmental policy analysis; economic valuation of natural resources; global environmental problems; sustainability, conservation, and preservation.

Pre-requisite(s): ECON1014

NRMP4301 ENVIRONMENTAL MICROBIOLOGY **Credit 3**

This course provides an overview of the microbiological aspects of environmental science and natural resource management. Topics include: survey of microbial organisms; roles of microbes: nutrient cycling, processing of organic materials, photosynthesis, respiration, detoxification or enhancement of pollutants; identification of select microbial community members of environmental significance.

Course specifics: field trip required.

Pre-requisite(s): BIOL1025, BIOL1025L

NRMP4351 ENVIRONMENTAL IMPACT ASSESSMENT **Credit 3**

This course covers a history and overview of the Environmental Impact Process with focus on Belize's system, with active student contribution and participation in EIA reviews. Topics include: Belize EIA process, screening, scoping and terms of reference; EIA components; impact assessment methods and techniques; prediction and mitigation of impacts; impact prediction methodologies and mitigation measures; methodologies for evaluation of alternatives; role of the public in environmental impact assessment.

Course specifics: field trip required.

Pre-requisite(s): NRMP2502

NRMP4402 TROPICAL FOREST ECOLOGY AND MANAGEMENT **Credit 4**

This course examines the ecology of tropical forest ecosystems and associated management issues in Belize and the region. Topics include: function and benefits of forests; major threats and impacts to forests; forestry management practices including sustainable forest management, community forestry and integrated fire management; conservation strategies for forests including the role of protected areas; policies and legislation guiding forest management. Course specifics: This course is entirely field-based and is part of a series of courses during the second semester, with each course delivered during a 4-week period.

Pre-requisite(s): NRMP4993, NRMP4351, NRMP3351

NRMP4452 WILDLIFE MANAGEMENT **Credit 3**

This course presents general wildlife ecology and conservation efforts and management issues for terrestrial and marine amphibians, reptiles, birds and mammals in Belize and the region. Topics include: population ecology; distribution; conservation efforts; management issues; key indicator wildlife species; importance of corridor maintenance. Course specifics: This course is done as part of a series of courses during second semester, with each course delivered during a 4-week period.

Pre-requisite(s): NRMP4993, NRMP4351, NRMP3351

NRMP4502 FISHERIES AND AQUACULTURE MANAGEMENT **Credit 4**

This course covers the management of both wild-caught and farm-reared tropical fish and crustaceans with particular focus on species of economic importance. Topics include: introduction to fisheries management: fish behavior and reproduction; tropical fishery resources; fishing gear and methods; population dynamics and fisheries yield; fisheries assessment and monitoring; fisheries management; fisheries of Belize: aquaculture management, target species, aquaculture systems, harvesting and production, water requirements and waste water treatment, parasites and diseases, aquaculture and the environment; aquaculture in Belize. Course specifics: This course is done as part of a series of courses during the second semester, with each course delivered during a 4-week period.

Pre-requisite(s): NRMP4993, NRMP4351, NRMP3351

NRMP4552 INTEGRATED COASTAL ZONE MANAGEMENT AND POLICY **Credit 3**

This course aims to provide a working understanding and background to integrated coastal zone management, its principles, concepts and practices. Topics include: fundamental concepts of ICM; evolution of international prescriptions on ICM; setting the stage for ICM; intergovernmental, institutional, legal and financial considerations; building the science and information base for ICM; formulation and approval of an ICM program; implementation; operation and evaluation of ICM programs; integrated coastal management in Belize; country case comparisons and lessons learned. Course specifics: This course is done as part of a series of courses during the second semester, with each course delivered during a 4-week period.

Pre-requisite(s): NRMP4993, NRMP4351, NRMP3351

NRMP4993 NRM INTERNSHIP **Credit 6**

In this course, students select an area of focus and an organization under which to carry out a structured internship project. The internship is jointly supervised and evaluated by an internal and external advisor. Course specifics: course needs to be completed in 6-8 consecutive weeks; written internship report; course is part of one of two package options for practical/field work for students pursuing a BNRM degree.

Pre-requisite(s): NRMP3151, NRMP3401, & MATH3012

NRMP3452 INDEPENDENT THESIS PROPOSAL **Credit 3**

In this course, students identify the topic and area of focus for a thesis project, conduct a detailed literature search, and develop a proposal for independent thesis research. Course specifics: This course is part of one of two package options for practical/field work for students pursuing a BNRM degree. Students completing this course must also complete NRMP4942.

Pre-requisite(s): NRMP3151, NRMP3401, ENGL3155, MATH2011

NRMP4942 INDEPENDENT THESIS PROJECT **Credit 6**

In this course, the student independently carries out the research identified and outlined in NRMP461, that will contribute to the field of resource management and environmental science in Belize. Course specifics: field work; written thesis report; oral presentation of thesis final report; course is part of one

of two package options for practical/field work for students pursuing a BNRM degree.
Pre-requisite(s): NRMP3452

NURS2051 NURSING CONCEPTS **Credit 3**
This course introduces the components of the professional nurse role and begins the process of change leading to professional socialization. Topics include: preparation for nursing practice; health care system in Belize; health status of Belizean population; nursing in the context of health care; concepts of health and illness; strategies for implementing nursing care. Course specifics: Requires a lab component. Students must provide a thermometer, stethoscope, and sphygmomanometer.
Pre-requisite(s): All BNUR year 1 courses
Co-requisite(s): NURS2051L

NURS2051L NURSING CONCEPTS LAB **Credit 1**
This course provides the student with the knowledge and practical application of basic nursing skills while incorporating concepts learned in NURS 2051. There is a major emphasis on the critical elements of nursing procedures and the scientific rationale for performing the procedure correctly.
Pre-requisite(s): All BNR year 1 courses
Co-requisite(s): NURS2051

NURS2152 CURRENT ISSUES IN NURSING **Credit 4**
This course provides students with the opportunity to examine selected issues that have an impact on the professional nurse's ability to practice in Belize. Topics include: legal aspects of nursing, ethical aspects, trends affecting nursing, nursing organizations, economics affecting nursing and health care delivery, political activism and nursing, health sector reform; project.
Pre-requisite(s): NURS2051, NURS2051L

NURS3051 NURSING CARE OF INFANTS AND CHILDREN **Credit 4**
This course utilizes the nursing process and the life cycle as the basis for developing health promotion, restoration, and maintenance strategies for infants and children from birth to eighteen years. Topics include: introduction to pediatric nursing; general concepts of growth and development: concepts; stages; theories; the newborn; the child and adolescent; examples of serious disorders of infants and children; issues for adolescents. nursing skills. Course specifics: Requires a lab component. Students must provide a uniform for clinical experience.
Pre-requisite(s): All BNUR year 1 and year 2 courses
Co-requisite(s): NURS3051L

NURS3051L NURSING CARE OF INFANTS AND CHILDREN LAB **Credit 2**
This laboratory course prepares the student nurse with the clinical skills to provide holistic, comprehensive, coordinated, and individualized care to the pediatric client in the hospital or community setting. The nursing process is applied with an emphasis on the skills of childhood diseases and childcare from infancy through adolescence, incorporating basic aspects of normal growth and development. The concepts of caring, holism, and patterns of need fulfillment are integrated throughout the course. The nurse's role in minimizing the stressful effects of illness, the use of therapeutic play, and the nutritional needs of infants and children are discussed. Practical application of the knowledge obtained in this course is integrated and will occur in a simulated practice setting where students apply selected principles and skills.
Pre-requisite(s): All BNUR year 1 and year 2 courses
Co-requisite(s): NURS3051

NURS3051P NURSING CARE OF INFANTS AND CHILDREN PRACTICUM **Credit 6**

This course provides the students with the opportunity for clinical practice and the application of theories and nursing skills. Topics include: examination of the newborn; growth and development from infancy to adolescence; nursing process; health needs assessment; implementation of teaching plans; communication and nursing skills; a case study of a child with medical or surgical condition.

Pre-requisite(s): NURS3051, NURS3051L

Co-requisite(s): NONE

NURS3101 CARE OF ADULT POPULATION **Credit 4**

This course focuses on normal changes and medical/surgical problems that occur in the young adult, mature adult, and elderly within a family and community. Topics include: Introduction to Care of Adult Population, Specific Health Problems, Care of medical and surgical Patients, Rehabilitation Nursing. Nursing Skills. Course specifics: requires a lab component.

Pre-requisite(s): All BNUR year 1 and year 2 courses

Co-requisite(s): NURS3101L

NURS3101L CARE OF ADULT POPULATION LAB **Credit 2**

This course focuses on preparing the students with those skills necessary to provide adequate nursing care for those patients with normal changes and medical/surgical problems that occur in the young adult, mature adult, and elderly within a family and community. Topics include: Introduction to Care of Adult Population, Specific Health Problems, Care of Medical and Surgical Patients, and Rehabilitation Nursing.

Pre-requisite(s): All BNUR year 1 and year 2 courses

Co-requisite(s): NURS3101

NURS3101P CARE OF THE ADULT POPULATION PRACTICUM **Credit 6**

This course provides students with practical experience in the clinical settings in health promotion, disease prevention, and maintenance of function across the health-illness continuum. A case study of a client with a medical or surgical condition.

Pre-requisite(s): NURS3101, NURS3101L

Co-requisite(s): NONE

NURS2202 PHYSICAL ASSESSMENT **Credit 3**

This course reinforces theories needed for the application of the nursing process with emphasis on skills useful in data gathering and analysis for conducting physical assessment across the life span. Topics include: the complete health history; physical examination techniques; normal and abnormal structures and functions; critical thinking skills. Course Specifics: Requires a lab component. Students are required to provide a diagnostic set, tuning fork, Patella hammer and other assessment tools.

Pre-requisite(s): ALHL2021, NURS2051, NURS2051L

Co-requisite(s): NURS2202L

NURS2202L PHYSICAL ASSESSMENT LAB **Credit 1**

This course reinforces theories needed for the application of the nursing process with emphasis on the skills useful in data gathering and analysis while conducting physical assessment across the life span. Practical application of the knowledge obtained from the simultaneously delivered theory course is integrated. This will occur in a simulated practice setting where students apply selected principles and skills in the assessment of different body systems across the lifespan.

Pre-requisite(s): ALHL2021, NURS2051, NURS2051L

Co-requisite(s): NURS2202

NURS4051 REPRODUCTIVE HEALTH CARE **Credit 5**

This course focuses on the reproductive health of females and males from adolescence to elderly. Topics include: embryological development; pregnancy; promotion and maintenance of reproductive health; and management of reproductive health problems specific to females and males. Requires a lab component. Theory will be taught for 10 weeks.

Pre-requisite(s): All 3rd year BNUR courses

Co-requisite(s): NURS4051L

NURS4051L REPRODUCTIVE HEALTH CARE LAB **Credit 1**

The course offers students the opportunity to develop psychomotor skills within the laboratory setting for the provision of reproductive health of males and females from adolescence through aging. Students learn to apply critical thinking and clinical judgments to the health care of the childbearing family from a holistic and humanistic perspective. Students will integrate theories of nursing in the promotion and maintenance of reproductive health and clients with a reproductive health condition.

Pre-requisite(s): All 3rd year BNUR courses

Co-requisite(s): NURS4051

NURS4051P REPRODUCTIVE HEALTH CARE PRACTICUM **Credit 3**

This course provides students with the opportunity to apply theory, nursing process, critical thinking, and to develop psychomotor skills related to the care of the client with conditions of the reproductive system. Clinical experience will be obtained during the last six weeks of the semester.

Pre-requisite(s): All 3rd year BNUR courses

Co-requisite(s): NURS4051, NURS4051L

NURS4101 COMMUNITY HEALTH NURSING **Credit 6**

This course provides the foundation for community health nursing practice. Topics include: concepts of primary health care; epidemiology; family and community assessment; prevention and control of communicable diseases; disaster preparedness. Course specifics: Project; Field Trip; Theory will be taught for 11 weeks of the semester.

Pre-requisite(s): All 3rd year BNUR courses

Co-requisite(s): NURS4101P

NURS4101P COMMUNITY HEALTH NURSING PRACTICUM **Credit 3**

This course provides the opportunity for the students to demonstrate skills in applying the primary health care concepts to attain, retain, and maintain a satisfactory quality of life for the individual, family, and community. Project. Clinical experience will be obtained during the last six weeks of the semester.

Pre-requisite(s): All 3rd year BNUR courses

Co-requisite(s): NURS4101

NURS4152 PROMOTING MENTAL WELLNESS **Credit 6**

This course introduces students to the basic concepts of psychiatric-mental health nursing based on a holistic and humanistic framework. Topics include: counseling; personal awareness and self-growth; psychotherapy and alter- native healing methods for the clients with psychiatric-mental health disorders; theory will be taught for00 weeks. Course specifics: Requires a project.

Pre-requisite(s): All 3rd year courses, NURS4101, NURS4101P

Co-requisite(s): NURS4152P

NURS4152P PROMOTING MENTAL WELLNESS PRACTICUM **Credit 3**

This course provides the opportunity for students to apply the nursing process in the care of individuals,

families and communities with actual or potential mental health problems, and also to develop beginning level clinical skills in individual and group counseling. Clinical experience will be obtained during the last six weeks of the semester.
Pre-requisite(s): All 3rd year courses, NURS4101, NURS4101P
Co-requisite(s): NURS4152

NURS4202 NURSING MANAGEMENT AND LEADERSHIP **Credit 6**
This course introduces the students to the theory and practice of nursing management and leadership roles in health care organizations. Topics include: the Belize health system, leadership and management: theory and practice, functions of management, leadership and managerial roles and care delivery strategies, delegation and time management, organizational and interpersonal communication, quality management and risk, organizational structure, issues in human resource management: problem solving/decision making, issues in financial planning, evaluation: performance appraisal, change; critical thinking and communication skills; project; theory will be taught for00 weeks. Course specifics: communication skills project.
Pre-requisite(s): All BNUR year 4 semester 1 courses
Co-requisite(s): NURS4202P

NURS4202P NURSING MANAGEMENT AND LEADERSHIP PRACTICUM **Credit 3**
This course provides students with the opportunities to demonstrate leadership skill in management of nursing care, the coordination of the nursing team, and the collaboration with other health care providers. Project. Clinical experience will be obtained during the last six weeks of the semester.
Pre-requisite(s): All BNUR year 4 semester0 courses
Co-requisite(s): NURS4202P

NUTR2055 FOOD, NUTRITION AND HEALTH **Credit 3**
This course provides students with the knowledge and understanding of the principles of human nutrition. Topics include: introduction to nutrition; energy yielding nutrients: carbohydrates; lipids; proteins; energy production and balance; metabolism; energy; obesity; and underweight; vitamins: fat-soluble; water-soluble; nutrition throughout lifecycle. project.
Pre-requisite(s): CHEM1032, CHEM1032L

PHIL1014 ETHICS **Credit 3**
This class is required for all University of Belize students. It includes an introduction to selected ethical systems, with an emphasis on social, moral, environmental, legal and biomedical issues. This course will provide students with the foundation necessary to evaluate, analyze, and respond to ethical issues in our society and in the global village. Students will be provided with "rational tools" that they will find useful in making sound moral or ethical choices in their respective professional fields.

POLI1014 INTRODUCTION TO PUBLIC POLICY **Credit 3**
This course examines the concept of public policy, the government, its structure and role in development of policies. During this course, students examine the context and effects of policies on social and economic issues. It also explores the Belizean response and perceptions of current policies, and role of research in policy.

PRAN1101 APLIED BIOLOGICAL SCIENCES **Credit 4**
This course provides detailed Information on structural and functional characteristics of living things

and their relationship/interaction with the environment, health and illness/disease. Topics include: living things: inter- relationship, characteristic, environment, homeostasis; living cells; the human body; digestion; nutrition; energy, work, movement; systems; control of the internal environment; response to the external environment; reproduction; spread of disease by micro-organisms.
Pre-requisite(s): SECONDARY SCHOOL BIOLOGY, CHEMISTRY AND SOCIAL SCIENCE

PRAN1151 APPLIED BEHAVIORAL SCIENCES **Credit 4**
This course focuses on the theoretical knowledge and hand-on skills (practical skills) needed for effectively working with people. It Provides the student with information about normal growth and development, family life education and communication skills. Topics include: normal growth and development; communication skills: interpersonal communication for all ages, interviewing and counseling, charting and observation; family life education.
Pre-requisite(s): SECONDARY SCHOOL BIOLOGY, CHEMISTRY AND SOCIAL SCIENCE

PRAN1201 FUNDAMENTALS OF NURSING I **Credit 2**
This course will provide the foundation for the study and practice of Practical Nursing as an integral and essential part of nursing. Topics include: concept of health; health and illness continuum; primary health care concept; functions of hospital; health services in Belize; health organizations; professional standards of nursing practice; theory of basic needs.
Pre-requisite(s): SECONDARY SCHOOL BIOLOGY, CHEMISTRY

PRAN1251 FUNDAMENTALS OF NURSING II **Credit 3**
This course enables students to utilize basic nursing skills and techniques in the areas of medical/surgical and pediatric. Topics include: medical asepsis; vital signs; therapeutic use of heat and cold; documentation and reporting; febrile conditions; care of decubiti ulcer; pre-operative care; post-operative care; surgical wound care; administration of medication; collection of specimen; blood transfusion; intravenous infusion; catheterization; perineal care; tractions; oxygen therapy.
Course specifics: Practical Lab.
Pre-requisite(s): SECONDARY SCHOOL BIOLOGY, CHEMISTRY

PRAN1251L FUNDAMENTALS OF NURSING II LAB **Credit 2**
This course introduces the student to the basic nursing skills and techniques in the areas of medical/surgical and pediatric nursing. Nursing principles related to these skills will be conveyed in a lecture format.
Pre-requisite(s): SECONDARY SCHOOL BIOLOGY, CHEMISTRY

PRAN1301 MEDICATION ADMINISTRATION **Credit 2**
This course will provide knowledge and information in the techniques and safeguards of administering medications and calculating the dosage of drugs. The purpose of this course is to combine principles of algebra, decimals, fractions, percentages and problem solving with practical examples to enhance learning of the concepts. Students will utilize knowledge of therapeutic drug groups and their effects on particular body systems in order to gain a more manageable approach to learning about large amounts of drugs. The course also combines with the pre-requisite high school math and allows development and utilization of these principles in medication administration.
Pre-requisite(s): SECONDARY SCHOOL BIOLOGY, CHEMISTRY, MATH

PRAN1352 FAMILY HEALTH IN COMMUNITY SETTINGS **Credit 3**
This course provides the students with knowledge and skills to provide preventive health care to individuals, families, groups/population at risk within the community setting. Topics include: Concepts

and Principles; Introduction to Epidemiology; Community/Family Nutrition; Control of Diarrheal Disease in the Community.
Course specifics: Field Project.
Pre-requisite(s): All PRAN semester 1 courses

PRAN1402 MEDICAL/SURGICAL NURSING **Credit 3**
This course prepares the students to assess functional health patterns, effects of illness on individuals, families and community and develop nursing care plans to meet the needs of the medical/surgical patient. Topics include: introduction to nursing conditions of illness; causes of disease and the body's response to illness; symptoms of illness; fluid and electrolyte balance; disorders of eliminations; introduction to medical/surgical nursing; review of basic human needs; health problems; common surgical interventions; nursing skills.
Course Specifies: There is a lab component for this course that will be conducted in a hospital setting.
Pre-requisite(s): All PRAN semester 1 courses

PRAN1402L MEDICAL/SURGICAL NURSING LAB **Credit 1**
Medical-Surgical Nursing Lab focuses on the application of the nursing process to the nursing care of patients experiencing medical-surgical conditions along the health-illness continuum in a variety of health care settings. The exposure and skills gained from this course will augment the students' knowledge and understanding of the patient, the patients' family and the community in a number of health care settings in Belize.
Pre-requisite(s): All semester 1 PRAN courses

PRAN1452 MENTAL HEALTH/PSYCHIATRIC NURSING **Credit 3**
The student should have basic knowledge of general mathematics at High School Level. Topics include: introduction to psychiatric nursing; concept of personality development; legal and ethical issues in psychiatric nursing; communication and therapeutic nurse-patient relationship; anxiety; psychiatric disorders; rehabilitation of the mentally ill person.
Course specifics: Lab Required.
Pre-requisite(s): All PRAN semester 1 courses

PRAN1502 OBSTETRICAL NURSING **Credit 3**
This course provides the student with knowledge and skills to ensure the best care of the mother, neonate and family within the community. Topics include: introduction to obstetrics; anatomy and physiology; embryological development; prenatal period and nursing care; normal intrapartal period; postpartum period and nursing care; immediate care of neonate; neonate with complications.
Course Specifics: Lab Component
Pre-requisite(s): All PRAN semester 1 courses

PRAN1502L OBSTETRICAL NURSING LAB **Credit 1**
This course is the lab component that prepares the practical nursing student to provide nursing care to the childbearing family and newborns. It allows the student to apply theory and develop psychomotor skills in the lab to provide safe and competent nursing care to prenatal and postpartum clients and the newborn in the clinical setting.
Pre-requisite(s): All PRAN semester 1 courses

PRAN1552 PEDIATRIC NURSING **Credit 3**
This course enables the student to utilize the nursing care process and other basic nursing skills in providing holistic care to the hospitalized children from birth to08 years and their families. Topics in-

clude: history of paediatric nursing; Convention on the Rights of the Child; factors influencing the adaptation of the paediatric client and family to hospitalization; admission of child to the hospital; the nursing process in administering care to the child and family; selected health problems.
Course specifies: Lab component.
Pre-requisite(s): All PRAN semester0 courses

PRAN1552L PEDIATRIC NURSING LAB **Credit 1**
This course is the lab component that prepares the practical nursing student to provide nursing care to the hospitalized child, from birth to08 years, and their families. It allows the student to apply theory and develop psychomotor skills in the lab to provide safe and competent nursing care to pediatric clients in the clinical setting.
Pre-requisite(s): All PRAN semester 1 courses

PRAN1991 SUPERVISED PRACTICAL EXPERIENCE **Credit 16**
This practicum enables the student to apply previously acquired knowledge, skills and techniques in the areas of Medical, Surgical, Obstetrics and Pediatric Nursing. Practical Nursing Students are rotated to the various units of Karl Heusner Memorial Hospital and assigned to patients under the supervision of Tutor, Clinical Instructor, Depart- mental/Ward Sister and Registered Nurse. Course specifics: Students will be assigned to patients while supervised by Tutor, Clinical Instructor, Department/Ward Sister, Registered Nurse. For program completion Students must complete all courses and their assigned clinical practicum. An announced and unannounced clinical evaluation will be done in the health facilities.
Pre-requisite(s): All PRAN semester 1 and 2 courses

BPHA 3051 Introduction to Pharmaceutical Science **Credit 3**
This is an introduction to contemporary Pharmacy considering various aspects of Pharmacy Practice. It covers a brief review of pharmacy history, educational development with reference to Belize, drug sources, drug information resources, ethics and law, health care systems and medical and pharmaceutical terminology.

BPHA3101 Pharmaceutical Calculations **Credit 3**
This is an Arithmetic course based on calculations in the different areas of pharmacy practice. It includes a review of arithmetic fundamentals with which the students should be strongly acquainted. The course deals with such important issues as different systems of weights and measures, calculations on doses, expression of strength in many forms (such as percentage parts per millions, millimoles and milli equivalence etc) and isotonicity of electrolyte solutions, density, specific gravity, reducing and enlarging formulae in compounding. The course also covers interpretation of prescriptions and medication orders. The student is expected to demonstrate knowledge of these calculations in subsequent courses such as dispensing and in the practice of Pharmacy after graduation.

BPHA3151 Pharmaceutical Microbiology **Credit 3**
The course allows pharmacy students to examine the application of theories and basic techniques in microbiology. It includes identification and classification of microorganisms both pathogenic and non-pathogenic microbes. Students will examine the role of microorganisms in infection and disease states, as well as understand the impact of control of microbes and the concept of anti-microbial therapy. General collection of specimens, identification, susceptibility testing and reporting procedures will also be discussed.

BPHA3202 Pharmacology I **Credit 3**

This course is a professional core requirement for Pharmacy students. It provides the student with in-depth information of mechanisms of drug action based on drug receptor theory. The clinical aspect of pharmacology is emphasized with keen attention to the nature, properties and actions of drugs and their effects on the human body. Topics include: drugs affecting the autonomic nervous system including cholinergic agonists and antagonists, adrenergic agonists and antagonists; CNS stimulants; anesthetics; steroid hormones; opioid analgesics and antagonists. For each class of drug presented, the following will be examined: the mechanism of action, basic pharmacokinetics, therapeutic uses, abuse potential, adverse effects, routes of administration, drug interactions, pregnancy category and special population cautions/contra indications.

BPHA3302 Pharmacognosy **Credit 3**

This course covers their isolation (extraction), chemical constitution, biochemical nature, and physiological actions as well as their pharmaceutical uses. The course will also incorporate the study of herbal medicine as it is practiced in Belize and other parts of the world. Drugs and medicine which are derived from natural products will be studied. This course will attempt to compare and contrast the practice of pharmacy and herbal medicine. It will examine the Herbal, fabricated preparations (Herbal products) sold in Belize pharmacies. Herbal toxicology and pesticides will also be discussed.

BPHA3352 Pharmaceutical Chemistry **Credit 3**

This course deals with principles and physicochemical properties of inorganic and organic pharmaceutical and medicinal substances, synthesis, identification and uses in pharmacy and medicine. It covers structure-activity relationships of drugs, drug design and development. The fundamentals of radiopharmaceuticals and medical gases including their applications in pharmacy and medicine will be covered. The course prepares the student with the knowledge and skills required in selection, handling maintenance of quality and use of drugs in therapy

BPHA3352 Pharmaceutics I **Credit 3**

The course covers the science of dosage form design and sterile technology. Specifically, physical pharmacy, properties of liquid and solid systems as they relate to biological systems, drug formulations and utilizations are presented. Sterile production and the dosage forms including biological products are discussed. The course provides the student with scientific knowledge and application necessary in dispensing of pharmaceutical products used in drug therapy.

BPHA3402 Pathology of Human Disease **Credit 3**

This introduction to human disease includes etiology and mechanisms of common disease states and integrates pathology with previous knowledge from Human Anatomy and Physiology to provide the basic concepts of pathology in relation to the development of various diseases and disease processes. This course will provide the foundation for further studies in Therapeutics.

BPHA4001 Supervised Clinical Research **Credit 3**

This course allows students to apply the research process and methods, and assist in the development of

problem-solving skills. It provides experiential opportunities to critically evaluate the science of pharmacy practice, apply this knowledge to pharmacy setting and scientific research work.At the completion of this course students will possess knowledge, skills and relevant experiences in research design and practice sufficient to evaluate published studies as an informed consumer.

BPHA4051 Therapeutics I **Credit 3**

This course is a study of the management of some of the major diseases and medical conditions prevalent in Belize, and neighbouring countries. Students will need to combine information gained in Pharmacology, Physiology and Microbiology, so as to gain further insight into their aetiology, presentation and complications of the conditions studied. Emphasis is placed on both drug and non-drug therapy with the aim of developing the student's appreciation of rational and cost effective drug usage.

BPHA4101 Pharmacology II **Credit 3**

Clinical pharmacology connects the gap between medical practice and pharmacy practice. The main objective is to promote the safety of drug use, maximize the drug effects and minimize the side effects. It is important that there be association with pharmacists skilled in areas of drug information, medication safety and other aspects of pharmacy practice related to clinical pharmacology. Students enrolled in this course will study the actions and effects of drugs on the human body. Relevant pharmacokinetics is also examined. The course concentrates on drugs affecting the cardiovascular system, blood, metabolic and endocrine systems, central nervous system and the respiratory system. The course is intended to present current information on drugs that are important for rational drug therapy.

BPHA4301 Patient Counseling and Physical Assessment **Credit 3**

Students will engage in activities aimed at developing key communications skills, including patient interviewing and counseling as well as skill in performing basic physical assessment of patient vitals. Students will build on therapeutic problem solving skills to assess patient complaints, with emphasis on nonprescription therapies for patient self-care.Students learn a systematic approach to assess, evaluate and make recommendations for pharmacy related patient care. The role of cultural and environmental influences on communication of health information is explored. In-class simulations are used to develop the necessary skills.

BPHA4151 Dispensing 1 **(2+1 Credits)**

This course is a professional core requirement that combines theory and lab. Students apply physiochemical principles to pharmaceutical systems and learn basic principles of compounding and dispensing. Lectures cover theory, while labs examine the technology of different dosage forms, and techniques in dispensing of prescriptions. The course covers fundamental operations in compounding and manufacturing; evaluation of prescriptions; calculations in compounding; packaging and closures; storage and stability of pharmaceutical dosage forms; labeling of medicines; routes of administration and dosage forms; pharmaceutical preparations of powders; and mixtures. The skills in compounding of extemporaneous preparation, and prescription evaluation are developed.

BPHA4201 Pharmacy law and ethics **Credit 2**

This course comprises a study of the Pharmacy Laws of Belize and examination of the ethical responsibilities of the Pharmacist. It includes topics such as Chemist and Druggist and Misuse of drugs

Acts, universal pharmacy practice standards, and codes of ethics in the workplace.

BPHA4251 Pharmacokinetics **Credit 3**

This course combines the theoretical and case-based approach to teaching students how to manage drug therapy from kinetic perspectives. The course will examine the general principles of drug action, absorption, distribution, metabolism and excretion of drugs in the human body. Students will apply these principles as they relate to the sub-therapeutic, therapeutic and toxic levels of drugs in the human body. The relevance of therapeutic drug monitoring is discussed. Students will be able to interpret and apply the information obtained from laboratory results to determine the appropriate dose. Other topics that will be covered are: Effects of age, diet, occupation and environment, diseases, and genetics on drug disposition, drug disposition in pregnancy, dosage regimen, calculation of correct dosages of medications based on relevant client characteristics or illnesses, drugs monitoring, drug bioequivalence, drug toxicity and interactions and pharmacokinetic parameters of important drugs will be covered.

BPHA4301 Patient counseling and physical assessment **Credit 3**

Students will engage in activities aimed at developing key communications skills, including patient interviewing and counseling as well as skill in performing basic physical assessment of patient vitals. Students will build on therapeutic problem solving skills to assess patient complaints, with emphasis on nonprescription therapies for patient self-care. Students learn a systematic approach to assess, evaluate and make recommendations for pharmacy related patient care. The role of cultural and environmental influences on communication of health information is explored. In-class simulations are used to develop the necessary skills.

BPHA4352 Therapeutics II **Credit 3**

This course is the second in the series of two courses required by pharmacy students. The subject matter of this course is diverse and requires application of previous course work. The disorders and conditions presented in this section of therapeutics concentrates on central nervous system (CNS) disorders (Parkinson's disease, Seizure Disorders), mental health disorders; pain management; urinary tract infections; sexually transmitted diseases; parasitic infections and malaria; conception and contraception and management of over dosages. At the end of this course students are able to discuss and explain the processes involved in the disorders covered above and be able to recognize signs and symptoms of the disorders as well as make recommendations for appropriate treatment.

BPHA4452 Pharmacology III **Credit 3**

This is the final pharmacology course in a sequence of three required for Pharmacy students. At this point students are expected to have a firm grasp of the concepts of the mechanisms of drug action based on drug receptor theory, and the nature, properties and actions of drugs and their effects on the human body. This section of pharmacology focuses on the different families and generations of antibiotics; antiviral agents; antifungal agents; anthelmintics; antiprotozoans, and oncolytic agents. For each class of drug presented, the following are examined: the mechanism of action; basic pharmacokinetics; therapeutic uses; abuse potential; adverse effects; routes of administration; drug interactions; pregnancy category; and special population cautions/contra indications.

BPHA4402 Pharmacy Management **Credit 3**

This course offers complimentary elements of techniques of direction and administration applied to Pharmacy services of today. Topics to be covered include: Management, Direction, Administration, functions of direction, styles of direction, techniques and tools of direction, systems of direction and leadership.

BPHA4502 DispensingII **(2+1 Credits)**

This course is a professional core requirement that combines theory and lab. This course focuses on the technology of formulation of pharmaceutical dosage forms. The principles of sterilization, concept of aseptic versus sterile environments as well as, sterile and wound management products are covered. Quality assurance and various pharmaceutical dosage forms especially tablets, suppositories, capsules, sustained- release drugs and aerosols are also studied. Lecture covers theory, while laboratory experiments/dispensing examine the technology of different dosage forms, compounding and dispensing of prescription. The skills required in compounding of extemporaneous preparation, prescription evaluation and dispensing would be developed.

BPHA4552 Toxicology **Credit 2**

This course is an introduction to the basic principles and practice of clinical toxicology. This course covers dose-response and mechanism of toxic action of commonly encountered poisons and selected pharmacological agents. The course also focuses on clinical manifestation, evaluation, and management of toxicities.

BPHA4602 Pharmaceutical analysis and control **Credit 2**

This course covers commonly used methodologies in the analysis of drugs and pharmaceutical products including the quality control. Specifically, physical, chemical, biologic, spectroscopic and chromatographic methods are applied in qualitative and quantitative determination of excipients and drug products. The processes of quality control and validation of pharmaceutical products are integrated to ensure production and supply of effective, safe and quality medicines.

BPHA4803 Therapeutics Rounds **Credit 3**

This course allows students to attend medical rounds which expose them to the therapeutic management of a patient diseased state. The integration of patients and their medical history, laboratory data, pathophysiology of the disease and pharmacology are addressed. These medical rounds cover three disciplines (Medicine, Surgical, and Pediatric) throughout a03 week period.

BPHA4752 Sterile Technology **Credit 2**

This course focuses on sterility, fundamentals of fluid & electrolyte therapy, supplies and equipment for extemporaneous compounding and administering sterile, calculations for parenteral compounding ,aseptic techniques, principles of compatibility and stability, preparation of hazardous drugs for parenteral use, parenteral admixtures, parenteral nutrition,Intravenous drug therapy in special populations, ophthalmic preparations , quality assurance and quality control for sterile compounding.

BPHA4851 Supervised Internship Rotation A **Credit 8**

This is a professional core requirement for pharmacy students. This course serves as a first exposure to pharmacy practice. It introduces students to the practical aspects of the pharmacy profession and gives them the opportunity to apply theoretical knowledge to actual practice. Students are placed under direct supervision of a registered pharmacist. Students are expected to complete a minimum of 640 hours. Preceptors aid students in developing good pharmacy practice and demonstrate skills including patient counseling skills and confidence in communicating with other health care workers, ethical and professional behaviors. During this period, students are expected to comply with all the rules and regulations of the establishment to which they have been assigned.

BPHA4902 Supervised Internship Rotation B **Credit 8**

This period of training represents the last semester placement of pharmacy students. This serves as a continuation of BPHA4851. It is expected that students will apply knowledge, skills and values they have developed to actual practice. Interns will rotate every 4 to 6 weeks between four different disciplines of pharmacy practice: compounding and manufacturing; hospital pharmacy; community pharmacy; and drug distribution/wholesale practice sites. Students will also have the opportunity of an elective rotation that will allow them to gain experience in an area of their choice.

BPHA4952 Pharmacy Board Review **Credit 2**

This course is designed to assist students in preparing for the Belize Pharmacy Board Exam. It will involve review and discussion of major pharmacy topics, mock orals and a mock board exam. This course requires the full participation of students. Particular attention will be paid to areas/topics students identify as having some difficulty with. Students will be expected to apply knowledge gained from the pharmacy courses taken in previous semesters, as well as knowledge gained from practical experience.

PHIL1014 ETHICS **Credit 3**

This course is an introduction to ethical systems with an emphasis on social, moral, religious, and biomedical issues. Topics include: philosophy and ethics; the development of ethical ideals; theories of Relativism and Subjectivism; contemporary issues (abortion, aids, homosexuality, death penalty, euthanasia, and gangs); an exploration of moral/ethical Philosophers: Plato, Socrates, Aristotle, Hobbes, Mill and St. Augustine.

Pre-requisite(s): NONE

PHIL300 PHILOSOPHY OF HUMAN NATURE **Credit 3**

This course exposes students to a few of the major philosophies, theories, and religious systems, both Western and Eastern, that are related to the subject of human nature. Through the primary approach of class dialogue, the class material will serve merely as a catalyst for in-depth analyses of individuality, behaviorism, social structures and ideas that may impact self-definition and the way humans interact and evolve.

Pre-requisite(s): NONE

PHYS1015 GENERAL PHYSICS I **Credit 3**

This course serves to prepare students for specialized studies in engineering at the university level. Students will develop critical thinking and problem solving skills and be able to carry out computer aided modeling of physical problems. Topics include: Motion; Dynamics; Thermal physics; Gas laws and Thermodynamics.

Pre-requisite(s): NONE
Co-requisite(s): PHYS1015L

PHYS1015L GENERAL PHYSICS0 LAB **Credit 1**
This lab course reinforces the theory studied in Phys1015 through use of demonstrative and hands-on methods that require student participation.
Pre-requisite(s): NONE
Co-requisite(s): PHYS1015

PHYS1025 GENERAL PHYSICS II **Credit 3**
This course is a continuation of PHYS1015. Topics: Electrostatics and electricity; Magnetostatics; Electromagnetism; electrons and photons and Atomic and nuclear physics.
Pre-requisite(s): PHYS1015
Co-requisite(s): PHYS1025L

PHYS1025L GENERAL PHYSICS II LAB **Credit 1**
This lab course reinforces the theory studied in Phys1025 through use of demonstrative and hands-on methods that require student participation. Experiment design and execution for hypothesis testing will be done.
Pre-requisite(s): NONE
Co-requisite(s): PHYS1025

PHYS1041 PHYSICS FOR ENGINEERS **Credit 2**
Equips students with basic concepts of Physics applicable to building and Engineering. Topics include: S.I System of Units. Electricity. Magnetism. Scalar and Vector Quantity. Tensile and Compressive Forces. Kinematics. Frictional Forces. Energy: Kinetic, Potential. Heat. Pressure: Boyle's law, Charles Law. Wave: Light, Sound.
Pre-requisite(s): NONE

PHYS1151 HEAT **Credit 3**
This course is dedicated to the study of phenomena associated with heat. The major components of this course are: introductory section on measurement and uncertainty. thermometry, heat capacity and latent heat, heat transfer, the gas laws, thermodynamics, and the kinetic theory of gases.

PHYS1162 FLUIDS& HEAT **Credit 3**
This Algebra-based course provides the necessary background in Mechanics of Fluids and Thermodynamics necessary for students to continue studies in Physics and Engineering. The major components of this course are Fluids, Heat Capacity and Latent Heat, Heat Transfer, The Ideal Gas Laws, Laws of Thermodynamics, The Kinetic Theory of Gases, Thermal Expansion and Thermometry.
Pre-requisite(s): HS PHYSICS & MATH

PHYS1201 MECHANICS FOR PHYSICS **Credit 4**
This 4-credit Algebra-based Mechanics course provides the background required for students to continue studies in Physics and Engineering, and is dedicated to the study of forces, motion, energy and conservation laws. The major components of this course are Vectors, Kinematics, Dynamics, Statics, Elasticity, Energy, Uniform Circular Motion and Gravity.
Pre-requisite(s): HS PHYSICS & MATH
Co-requisite(s): PHYS1251L

PHYS1251L PHYSICS LAB I **Credit 1**

This0-credit course, required of all Physics majors, is designed to reinforce the theory studied in Phys1201. Laboratory exercises will focus on the areas of Measurement and Uncertainty, and Mechanics. Students will be expected to carry out experiments which are demonstrative and afford a visual and "hands-on" approach to the concepts studied in class. They will also be required to design and carry out experiments aimed at testing hypotheses. Students will analyse data using modern software applications like Microsoft Excel and others.

Pre-requisite(s): NONE

Co-requisite(s): PHYS1151 & PHYS1201

PHYS1312 OSCILLATION & WAVES **Credit 4**

This 4-credit course provides prerequisite knowledge necessary for further studies in Physics and Engineering. This course introduces students to oscillatory and wave phenomena as well as the mathematical techniques used in their analysis. Topics to be covered are Simple Harmonic Motion, Travelling Waves and Sound, Superposition and Standing Waves, Wave Optics, Ray Optics, and Optical Instruments.

Pre-requisite(s): PHYS1201

Co-requisite(s): PHYS1402L

PHYS1402L PHYSICS LAB 2 **Credit 1**

This0-credit course, required of all Physics majors, is designed to reinforce the theory studied in PHYS1312. Laboratory exercises will focus on the areas of Simple Harmonic Motion, Sound, Ray Optics, and Physical Optics. Students will be expected to carry out experiments which are demonstrative and afford a visual and "hands-on" approach to the concepts studied in class. They will also be required to design and carry out experiments aimed at testing hypotheses. Students will analyse data using modern software applications like Microsoft Excel and others.

Pre-requisite(s): NONE

Co-requisite(s): PHYS1312

PHYS2161 ELECTRICITY & MAGNETISM **Credit 3**

This 4 credit course exposes students to the principles governing electromagnetic phenomena and its relationship to electric current. The electricity section focuses on principles related to electric and electrostatic phenomena. The areas to be covered are Electrostatics, Electric Fields and Forces, Capacitors, and Direct Current Circuits. The magnetism topics include: Magnetic Fields and Forces, Electromagnetic Induction and Alternating currents. Student activity will include but not be limited to the attendance of lectures which will be multimedia based, where feasible and group discussions involving the theoretical application of electromagnetic laws.

Pre-requisite(s): PHYS1312

Co-requisite(s): PHYS2201 & PHYS2251L

PHYS2251L PHYSICS LAB III **Credit 1**

This0 credit course, required of all Physics majors, is designed to reinforce the theory studied in Phys2161: Electricity and Magnetism. Students will be expected to carry out experiments, observations, simulations which are demonstrative and afford a visual and "hands-on" approach to the concepts studied in class.

Pre-requisite(s): NONE

Co-requisite(s): PHYS2151 & PHYS2201

PHYS2302 MODERN PHYSICS **Credit 3**

This three credit course, required of all physics majors, introduces students to a branch of physics which had its origin in the late09th century. They will be exposed to models which seem to contradict their notions of "common sense". The student will appreciate that certain phenomena involving light, energy and mass cannot be explained using the models he/she has studied heretofore. Students will delve into the structure of the atom, investigate radioactivity and the different types of nuclear radiation, study the particulate nature of nuclear radiation; and, review the behavior of charged particles in electric and magnetic fields. Students will survey Relativity, Particle Physics and String Theory.

Pre-requisite(s): PHYS2161

Co-requisite(s): PHYS2402L

PHYS2352 ELECTRONICS **Credit 3**

This three credit course, required of all physics majors, introduces students to the technology that permeates every aspect of our modern life. Topics include: They will be exposed to the basic theories, principles and practices that govern the behavior of electronic equipment, design. Students will create and test specific electronic circuits designed to carry out very specific functions. Analysis of circuit diagrams. will build student familiarity with electronic technology. Introduction to t Telecommunication, is also introduced in this course. Students will be exposed to the principles of modulation. D, the digital transmission of information. R, and radio communication.

Pre-requisite(s): PHYS2161

Co-requisite(s): PHYS2402L

PHYS2402L PHYSICS LAB IV **Credit 1**

This laboratory0 credit course, required of all Physics majors, is designed to reinforces the theory studied in Phys202 and Phys2and requires students to conduct experiments that demonstrate concepts and test hypotheses covered in PHYS 202 and 20422, that is, laboratory exercises will focus on the areas of Topics include: Nuclear Radioactivity, Motion of Charged Particles in Electrical and Magnetic Fields, Analog and Digital Electronics. Students will be expected to carry out experiments which are demonstrative and afford a visual and "hands-on" approach to the concepts studied in class. They will also be required to design and carry out experiments aimed at testing hypotheses.

Pre-requisite(s): NONE

Co-requisite(s): PHYS2302 & PHYS2352

PLGL1011 LEGAL ENVIRONMENT(4hrs/wk 5 wks) **Credit 3**

This course examines the legal framework for students who are desirous of embarking on law as a career. Specific topics that will be covered are: background of the classification of the law; rules of statutory interpretation; the judicial system; structure and composition of the courts of Belize; purpose and forms of punishment and legal profession; alternative dispute resolution and arbitration; and the office of the Ombudsman

Pre-requisite(s): NONE

PLGL1021 CRIMINAL LAW(4hrs/wk 5 wks) **Credit 3**

This course introduces students to general principles of criminal law, Statutory and Criminal Law offences, the application of Criminal law principles by the local courts, and the importance of Criminal Law to the Administration of Justice and overall social stability. Topics include: preliminary concepts of criminal law; substantive aspects of criminal law; procedural aspects of criminal law.

Pre-requisite(s): NONE

PLGL1031 CONTRACT LAW(4hrs/wk 5 wks) **Credit 3**

This course introduces students to the law of contract. Furthermore, the course focuses on important elements of Contract Law and provides students with a working knowledge that they can apply in everyday experiences. Specific topics include: offer; acceptance; intention to create legal relations; consideration; terms of the contract; exclusion clauses; incapacity; mistake; misrepresentation; illegality; frustration; and remedies for breach of contract.

Pre-requisite(s): NONE

PLGL1042 LAND LAW(4hrs/wk 5 wks) **Credit 3**

This course provides students a basic understanding of the general nature of Land Law. Furthermore, this course examines the fundamental principles governing the holding, use and disposition of land in Belize. Specific topics include: real estate; personal estate; creating the various estates; trust for sale; types of tenancies; common law title; registered title; and rights and responsibilities of landlords and tenants.

Pre-requisite(s): NONE

PLGL1052 TORTS **Credit 3**

This course exposes students to liabilities that can lead to lawsuits. The general categories of intentional, negligent and strict liability torts are covered. The general purpose of tort law is to compensate for damages incurred and deter others from committing similar wrong doings.

Pre-requisite(s): NONE

PLGL1062 CIVIL PROCEDURE **Credit 3**

This course introduces students to important elements of Civil Procedure with a focus on applying the knowledge in their individual areas of work. Specific topics include: choosing the proper court, commencement of an action, pleadings and motions, and adjudication without trial.

Pre-requisite(s): NONE

PLGL2017 FAMILY LAW(4hrs/wk 5 wks) **Credit 3**

This course introduces students to the general principles of Family Law. Furthermore, it emphasizes the creation and removal of legal status, its consequences, and the protection of family members. Specific topics include: marriage and its formation; legal consequences of marriage; termination of marriage; and parents and children.

Pre-requisite(s): NONE

PLGL2021 STRUCTURE & ORGANIZATION(4hrs/wk 5 wks) **Credit 3**

This course introduces students to the general principles of law relating to the nature, formation, structure and practical aspects of the various types of organizations. Specific topics include: types of organizations; types of companies; formation of companies and other organizations; and dissolution of companies and partnerships.

Pre-requisite(s): NONE

PLGL2031 EQUITY AND TRUST **Credit 3**

This course introduces students to important elements of Equity and Trust with a focus on applying the knowledge in their individual areas of work. Specific topics include: constitution of express trusts, trusts implied by law, and breach of trusts and equitable remedies.

Pre-requisite(s): NONE

PLGL2042 LABOUR LAW(4hrs/wk 5 wks) **Credit 3**

This course introduces students to important elements of Labour Law with a focus on applying the knowledge in their individual areas of work. Specific topics include: employment relationships; contract of employment; contract for services; The Labour Act; trade unions; employer's organizations; collective bargaining agreements; Trade Disputes Act; and wrongful dismissal.

Pre-requisite(s): NONE

PLGL2052 PROBATE AND SUCCESSION(4hrs/wk 5 wks) **Credit 3**

This course introduces students to the important elements of Probate and Succession with a focus on applying the knowledge to everyday experiences. Specific topics include: governing legislation, testate succession, interstate succession, and duties of personal representatives.

Pre-requisite(s): NONE

PLGL2062 CONSTITUTIONAL LAW (4hrs/wk 5 wks) **Credit 3**

This course introduces students to the important elements of Constitutional Law with a focus on applying the knowledge to everyday experiences. Specific topics include: nature, scope and characteristics of constitutional law; judicial review; separation of powers; rule of law and the conventions of the constitution; fundamental rights and freedoms; and the public service.

Pre-requisite(s): NONE

PSMG3011 INTRO TO PUBLIC SECTOR ADMINISTRATION & MANAGEMENT **Credit 3**

This course introduces students to the processes, institutions, and practices associated with the government's role in contemporary Belize, other Caribbean states, and Central America and the linkages and tensions between the elements of governance mentioned above. This course is divided into three parts. The first part allows the student to examine, critically discuss and evaluate the activities related to the traditional system of public administration and the modern system of public management. In the second part, the Westminster Whitehall institutional framework, understanding of the legislative process (Acts and Laws), the roles of state, non-state and international agencies, related values, interrelationships, and tensions are addressed. Part three provides an opportunity for interaction with practitioners and applying public management to life experiences. The course emphasizes relevant core concepts, values, and conflicts.

Pre-requisite(s): MGMT1014

PSMG3015 ORGANIZATIONAL BEHAVIOR IN THE PUBLIC SECTOR **Credit 3**

This course focuses on studying the factors that influence behavior in organizations and the strategies used to manage behavior at an individual, group, and organizational level. Emphasis is placed on individual perception and learning, personalities and abilities, motivation, group processes and work teams, communication, decision making, power and politics in organizations, leadership, organizational culture, and organizational structure and design. Concepts and strategies are applied and (where possible) adapted within a local context through case studies, simulated exercises, individual and group assignments, tests, and a final examination.

Pre-requisite(s): MGMT1014

PSMG3051 ETHICS IN POLITICS AND ADMINISTRATION **Credit 3**

This course examines the various kinds of ethical problems faced by elected and non-elected government personnel. It also focuses on the scope and limits of individual responsibility in the practice of politics and the management of public organizations.

Pre-requisite(s): MGMT2055

PSMG3101 INTRO TO POLITICS AND POLITICAL INSTITUTIONS **Credit 3**

This course will examine the nature and meaning of politics, political philosophies, the rise of political institutions in Belize and the main forms, institutions and issues of politics and government in the contemporary world. Particular attention will be given to the structure of Belize's public service, ministries and departments. Issues of regional and international governmental relations will also be covered.

Pre-requisite(s): MGMT1014, PSMG3011

PSMG3151 ADMINISTRATIVE AND CONSTITUTIONAL LAW **Credit 3**

This course introduces students to the processes, institutions, and practices associated with the government's role in contemporary Belize, other Caribbean states, and Central America and the linkages and tensions between the elements of governance mentioned above. This course is divided into three parts. The first part allows the student to examine, critically discuss and evaluate the activities related to the traditional system of public administration and the modern system of public management. In the second part, the Westminster Whitehall institutional framework, understanding of the legislative process (Acts and Laws), the roles of state, non-state and international agencies, related values, interrelationships, and tensions are addressed. Part three provides an opportunity for interaction with practitioners and applying public management to life experiences. The course emphasizes relevant core concepts, values, and conflicts.

Pre-requisite(s): BLAW2014

PSMG3202 TRENDS IN NEW PUBLIC ADMINISTRATION & MANAGEMENT **Credit: 3**

Public services across the world and in our region have undergone and are still undergoing changes that have affected the organization and management of the same. Trends such as the transfer of private sector models to the public sector, the management of change in the public sector, and management reorganization and role change have all created the emergence of a New Public Management.

This course will cover areas such as reform initiatives, devolving authority and decentralizing, “rightsizing” or limiting the size and scope of government, restoring civil society, adopting marketing principles, managing form results, satisfying citizens and holding government accountable, empowering employees, citizens among other related issues.

Pre-requisite(s): PSMG3011; ENGL1025

PSMG3252 PUBLIC POLICY AND ANALYSIS **Credit 3**

This course is a broad introduction to the study of public policy and its processes in the public sector. It will include an analysis of current theories of policymaking, and given that policy analysis is problem-based, it will examine case studies from Belizean contexts as best as possible. In addition to considering specific policy areas, this course will focus on the policymaking process and policy evaluation, the policy communication process, the structural aspects of policy execution, and the human dimensions of implementing and coordinating policies in public sector organizations. This course will be practical and require that students analyze policies based on predetermined criteria such as financial feasibility, political feasibility, equity, and administrative operability.

Students must critically analyze and assess public policies and their formation through writing, class seminars, and other in-class exercises. The first half of the class shall cover the substantive theories and approaches to understanding the policy process and policy analysis. Meanwhile, during the second half of the course, we shall consider specific policy areas as students analyze a policy question of their choosing.

Pre-requisite(s): PSMG3011

PSMG3302 PUBLIC SECTOR MARKETING **Credit 3**

The public sector faces increasing challenges in marketing its products and services, ensuring that these are aimed at the right target audience, delivered at the right time, with the right support that is responsive to ongoing, unpredictable client demands. This course will give students an appreciation of the role and contribution of marketing in the public sector. It will also provide students with an overview of the effective methods of acquiring and using marketing intelligence with a limited budget, and the components of integrated marketing communications required to implement successful marketing strategies with limited resources. The course will also examine how to develop social marketing campaigns, best practices and key components of working with the private sector, including partnerships, sponsorships, strategic alliances and cause-related marketing, and how to "market your marketing programme" internally by promoting the benefits of marketing to key players in an organization.

Pre-requisite(s): PSMG3011, MKTG2015

PSMG3312 CONFLICT MANAGEMENT **Credit 3**

The course examines the various skills that one can adopt to become an effective negotiator. Using theory and research as its foundation, this course examines the psychological and sociological factors that are embedded in the negotiation process. It explores the complexities of negotiations, by looking at how conflict is related and how temperaments and personality traits impact the negotiation process. The course provides the opportunity for you to link theory to practice, it also gives you the opportunity to develop, practice, and perfect your own negotiation skills.

Pre-requisite(s): PSMG3011, ENGL1025

PSMG3352 PROJECT MANAGEMENT **Credit 3**

The course in Project Management will focus on how organizations can use project management to sharpen organizational focus so that all resources can be optimally utilized while operating within a competitive environment. Topics to be covered are: Project Integration Management, Project Time Management, Project Cost Management, Project Quality Management, Project Communication Management, Project Risk Management, Project Procurement Management and Project Stakeholders Management. This course is the first step to gain a level of proficiency in the science and art of Project Management.

Pre-requisite(s): PSMG3011, ENGL1025

PSMG3402 SEMINAR IN PUBLIC ADMINISTRATION **Credits 3**

This course will entail a survey of various critical issues such as economic development, private-public partnerships, doing Business in Belize, corruption, and national development, as well as public sector administration and efficiency. Students will be required to carefully analyze the various subject matter to make sound and practical recommendations for improvement. The course will feature various expert presentations, debates and discussions, analytical case studies, and reports.

Pre-requisite(s): PSMG3011, PSMG3051 & PSMG3101

PSMG4011 PUBLIC FINANCIAL ADMINISTRATION & ACCOUNTING **Credit 3**

This course will provide an overview of public financial administration inclusive of an examination of governmental revenues and expenditures. Reference will be made to fiscal and monetary policy relations, debt management, and administrative decision-making. The student will also be introduced to the subject of accounting in governmental, non-profit and private sector organizations. By way of example, significant reference will be made to public financial administration and accounting in Belize (and the Caribbean).

Pre-requisite(s): FNAN2014

PSMG4101 RURAL AND URBAN PLANING **Credit 3**

This course has a two-prong focus. First, it focuses on planning functions in rural settings and small towns. Here, special attention is given to identifying physical hazards and development, land suitability analysis, and managing urban development in rural areas. Secondly, it focuses on urban planning functions, including neighborhood design, subdivision, zoning and planning policy development. The development of practical planning skills is emphasized.

Pre-requisite(s): PSMG3011

PSMG4111 LEADERSHIP AND CHANGE MANAGEMENT **Credit 3**

This course aims at developing students Leadership Skills, so they have the confidence and authority to make a real difference in their environment. It aims at introducing the methodologies and processes that are essential aspects of leadership: conceptualizing motivation, identifying traits, creating a vision, understanding influence, overcoming obstacles, developing character, and establishing a professional brand. It offers students an opportunity to focus on self-awareness, individual effectiveness, and self-assessment to learn how to recognize and utilize the differences between themselves and others. Students will receive ongoing feedback from their peers and a chance to develop their own philosophy of leadership. The successful student should be able to answer the question, what does it take to be a 21st-century leader?

Pre-requisite(s): PSMG3011, PSMG3101

PSMG4151 HUMAN RESOURCES MANAGEMENT AND LABOR RELATIONS **Credit 3**

This course examines the different aspects of the human resource function within public sector organizations. It compares current theory and practice in human resource planning, recruitment and selection, performance appraisal, compensation, benefits and promotions, career planning, and staff development. In addition, the course covers aspects of public sector labor law, regulations, and relations, including discipline and grievances, collective bargaining, and managing an authorized workplace. Attention is also given to understanding the Public Service Regulation and other conditions of service in the Belize Public Service.

Pre-requisite(s): PSMG3011, PSMG3015, ENGL1025

PSMG4152 QUANTITATIVE ANALYSES FOR PUBLIC ADMINISTRATION **Credit 3**

This course addresses the need and use of quantitative techniques in Public Administration for Decision Making. Background information will be provided and discussed, including but not limited to: Descriptive Statistics (Numerical: Central Tendency and Dispersion; Graphical), Quantitative Techniques (definition, uses, tools and applications), Linear Programming, Correlation, Linear Regression, Forecasting, Time Series, Index Numbers, Inventory Control, Decision Analysis, Networks, Arithmetic and Geometric Progression, Interest Rate and Depreciation, Present value, Investment Appraisals.

Pre-requisite(s): MATH2025

PSMG4155 BUSINESS STRATEGY FOR THE PUBLIC SECTOR **Credit 3**

The Business Strategy and Policy course is a culminating and integrative course within the Bachelor's Degree in Public Sector Management at the University of Belize. It is designed to draw upon and consolidate the core knowledge, skills, and competencies students have acquired throughout their academic journey in the program. This course prepares students to function as strategic decision-makers in various governmental and public service institutions, with an emphasis on real-world application, critical thinking, and leadership.

Pre-requisite(s): Final semester

PSMG4202 COMPARATIVE PUBLIC MANAGEMENT **Credit 3**

The course focuses on the structure and functions of public bureaucracy and the organizations composing it in various countries. This is the most prevalent approach and model used to compare and study public administration cross-nationally. Public administration is defined as those ongoing, publicly funded, and executed activities resulting from and intended to carry out governmentally adopted public policies. The course will look at public administration from a conceptual and theoretical point of view and review the different structures, functions, and mechanisms for the legitimization of public administration. In addition, the course will be guided by a humanistic viewpoint that recognizes that public administration takes place in organizations that are run by human beings and affected by culture, place, history, and other pertinent humanistic influences

Pre-requisite(s): PSMG3011, PSMG3202, PSMG3015, ENGL1025

PSYC1014 INTRODUCTION TO PSYCHOLOGY **Credit 3**

This three-hour credit course is designed to expose students to the field of psychology. As an introductory course, it addresses the basic principles and concepts of/and provides an overview of the field of psychology. Throughout this course is an emphasis in developing an understanding of psychology as the science of cognition and human behavior. Special attention is given to providing a general understanding of the affective, behavioral and cognitive processes of human behavior. Topics surveyed include but are not limited to research methodology, consciousness, motivation, learning, cognition, physiology, personality theories, and human development. It also explores the application of psychological principles and concepts to business, social and personal life in Belize.

Pre-requisite(s): ENGL1014

PSYC3025 Psychology of Crime & Criminal Behaviour **Credit 3**

In this course, students explore the mind of the criminal offenders, as well as the legal definition of crime. This course reviews a causal relationship between mental health and disorders, and criminal behavior. It will explore biological, behavioural, developmental theories, juvenile delinquency, psychopathology, aggression and influence on varying types of criminal offenses. Finally, the course considers the utility of application of psychological theories and research in crime control and prevention, emphasizing the current research.

Pre-requisite(s): PSYC1014, CJCY2205

RSCH2014 RESEARCH METHODS **Credit 3**

This three-credit course will introduce students to the basic concepts, theories, methods and the major steps involved in conducting a research study. The areas covered include: the research process and the structure of the enquiry process; different methods of observation and data collection; techniques for analyzing and presenting data and writing the research report. As a result of familiarizing the student with various research approaches, he/she will apply this knowledge to the Belizean society in a course project.

Pre-requisite(s): ENGL1025

RSCH4015 RESEARCH METHODS FOR SOCIAL SCIENCES **Credit 3**

This advanced course in research allows students to understand Survey Research as an integral tool in the design of research problems. Topics include: selecting a research topic and research question; literature review/proposal writing; quantitative and qualitative research designs; research ethics and legal issues; data collecting tools; data analysis; data analysis tutorial - SPSS; writing research reports.

Course Specifics: Students will be required to conduct a research project using the Survey methodology as their primary data collection tool.

Pre-requisite(s): RSCH299, SENIOR STANDING

RSCH4015T RESEARCH METHODS FOR SOCIAL SCIENCES - THESIS **Credit 3**

This advanced course is intended for students who are to undertake Seminar Paper/Undergraduate Thesis in the next semester. This course delves deeper into the methods and procedures for conducting scientific research in the social sciences. It provides a practical guide to the entire research process from conceptualization and operationalization to writing and defending a research project. The course emphasizes formulating a problem statement, identifying research questions, conducting and writing a literature review, choosing a sample, selecting an appropriate research design, quantitative and qualitative data collection, quantitative and qualitative data analysis and interpretation, writing the research report, and ethical and legal issues related to social science research. This course also introduces students to SPSS, a software package used in quantitative research.

Pre-requisite(s): RSCH2014; ENGL3055

SOCL1014 INTRODUCTION TO SOCIOLOGY **Credit 3**

This course introduces students to the study of sociological perspectives, issues, and concepts. Topics include the nature of sociology, perspectives, and scientific methods for studying society, socialization, culture, race, ethnicity, and major social institutions.

Pre-requisite(s): ENGL1014

SOST3352 SOCIAL STUDIES METHODS **Credit 3**

This course is designed for primary education teachers and focuses on various instructional methods and strategies of social studies used in the primary classroom. Emphasis is placed on how students learn social studies so that they can effectively plan, deliver, assess and evaluate lessons, and utilize technology in the classroom. Topics include: what? why? nature and scope of social studies; the Social Studies Guide; challenges; units and themes in social studies; social studies in the school curriculum: best practices; instructional strategies; discovery, inquiry, community building, rulemaking; teaching strategies and teaching-learning resources.

Pre-requisite(s): EDUC222

SPAN1015 LEVEL 1 - BEGINNING SPANISH **Credits 3**

This Beginners Spanish course is the first step in the five-level Spanish Program at UB (see under Prerequisites). Upon successful completion of each level, opportunities in the job market in Belize increase exponentially. This Spanish language course is geared toward complete beginners as well as those who may have had some prior exposure to the language but whose knowledge is solely passive and therefore feel that they cannot speak or write. It provides students with basic competency in Spanish (e.g., tackling how to greet people, introduce themselves, go shopping, talk about everyday habits) and more importantly it builds up their confidence significantly. A communicative approach is used to allow students to speak and write in the target language from day one and make progress in a step-by-step, cyclical way.

Pre-requisite(s): Spanish Placement Test

SPAN1025 LEVEL 2 - LOWER-INTERMEDIATE SPANISH **Credits 3**

This course bridges the gap between beginner and intermediate stages in the language acquisition process by rein- forcing structures learned earlier using the communicative approach. Topics include: conversations about familiar topics in the present and past; responding to everyday events by asking questions; making comparisons; formulating and expressing opinions; offering congratulations; expressing emotions and regret; making predictions using the future tense.

Pre-requisite(s): Spanish Placement Test or SPAN101

SPAN2015 LEVEL 3 - INTERMEDIATE SPANISH **Credits 3**

This course provides students with a solid intermediate-level grounding in Spanish emphasizing communication in real life situations, learning of appropriate grammatical and lexical structures and the translation of acquired knowledge into useful writing skills. Topics include: evaluating past events; expressing future wishes; interpreting behaviours according to social codes of conduct and reacting accordingly; empathizing with people's concerns; conveying concerns.

Pre-requisite(s): Spanish Placement Test or SPAN102

SPAN2025 LEVEL 4 - HIGH-INTERMEDIATE SPANISH **Credits 3**

This course prepares students to move toward advanced competency using a task-based approach including integrated skills, highly motivating and rewarding real-life tasks, an inspiring student-centered focus, and an emphasis on promoting learner independence and awareness of their own learning processes. Topics include: articulate communicators in Spanish; expressing and scrutinizing complex ideas and arguments; making proposals; debating critical issues; speculating about past and future events; speaking, writing, reading and listening in combination.

Pre-requisite(s): Spanish Placement Test or SPAN201

SPAN3015 LEVEL 5 - ADVANCED SPANISH **Credits 3**

This course is the final stage in acquiring the necessary linguistic skills to operate in Spanish fully and successfully in Belize, the region, and the rest of the Spanish-speaking world. Topics include: communicative actions: defending moral justice; writing and supporting a political manifesto; proposing a declaration of rights; stimulating social awareness; convincingly selling commercial products; marketing themselves; effective communication in any of their present or future career endeavors.

Pre-requisite(s): Spanish Placement Test or SPAN202

SPED3111 INTRO TO SPECIAL EDUCATION **Credit 3**

This course introduces students to the different exceptionalities. Topics include: the various categories of exceptionalities as well as characteristics, prevalence, etiology, educational implications, and teaching strategies. This course focuses on the roles of teachers, parents, and other professionals in providing instructions and other services to exceptional pupils.

Pre-requisite(s): NONE

SPED4122 STRATEGIES FOR MEETING LEARNING NEEDS **Credit 3**

This course is designed to provide teachers, administrators and parents of children with special needs with the tools necessary to effectively offer specialized instruction and create appropriate learning environments for individuals with special needs. Topics include: principles of effective instruction; inclusion; developing an individualized education plan; socialization and classroom arrangement; teaching content area: instructional design.

Pre-requisite(s): SPED301, EDUC222

STAT1014 FUNDAMENTAL PRINCIPLES OF OFFICIAL STATISTICS **Credit 3**

This course provides an overview of the key areas of Official Statistics. The course introduces students to institutional, legal and organizational aspects of official statistics and to understand the methodological bases of measurement in official statistics. Topics include: Defining Official Statistics, National Statistical System vs National Statistical Office, History of Official Statistics, Properties of Official Statistics, Legislative Issues, Management of National Statistics, Classification Systems, Data Dissemination, and Communication Skills.

STAT3011 ECONOMIC STATISTICS **Credit 3**

This course is designed to train students to explore a dataset, to analyze relationships and to test hypotheses about some economic phenomenon Topics include Concepts and Definition Theoretical Frameworks, Data Collection, Data Preparation and Quality, Relevant Indicators and their interpretation, Index numbers, Trade Statistics, GDP Estimates, CPI Estimation, Supply Data Analysis, and Use Tables, Balance of Payments Statistics, and Financial Statistics.

STAT3021 SOCIAL STATISTICS **Credit 3**

This course will introduce students to statistical data commonly used in social science. First, a short introduction into principles of collecting and using data from various data sources will be made. Further, data sources on topics which include: labor market, household wellbeing, poverty and inequality, migration, health, education, economic development and Criminal Justice systems will be studied. Lectures would include overview of appropriate data sources, indicators and statistical measures common to the field and their possible implementation. Seminars would involve calculations in Stata using micro-level data sources. Students will be given a sample dataset to calculate and analyze indicators discussed at the lectures. At the end of each seminar a short test will be held. A final project would involve a report on selected country & topic statistics. A final exam would include test questions on studied topics and a task that involves Stata calculations.

STAT2151 INTRODUCTION TO STATISTICAL SOFTWARE **Credit 3**

This course introduces students to statistical software for researchers, providing visualization and data analytical tools. This course provides the students with a practical application of the statistical component of statistical software. Students will review several statistical techniques, gain an understanding of when and why to use these various techniques as well as how to apply them with confidence, interpret their output, and graphically display the results.

STAT4041 TIME SERIES ANALYSIS AND MODELLING **Credit 3**

This course is an applied approach to time series analysis. Fundamental time series concepts such as descriptive techniques, probability models, autoregressive processes, moving average processes and forecasting will be covered as well as Box-Jenkins methods and spectral analysis. This course requires the use of computer technology.

STAT4131 ADVANCE STATISTICAL SOFTWARE **Credit 3**

Instruction in the use of statistical software, such as R, SPSS, Minitab, Matlab, or Excel, etc., to analyze real-world data from a variety of disciplines and build on concepts covered in previous statistics courses. The topics include Manipulation the Software, Advanced commands, Advanced Statistical Procedures, Reading and Interpreting Advanced Statistical Output.

STAT3052 DEMOGRAPHIC TECHNIQUES **Credit 3**

This is a survey course in techniques that are widely used in demographic analysis. These include techniques that describe population structure, analyze demographic dynamics and evaluate demographic data. In addition, many of the analytic skills and techniques stressed throughout the course have more general applicability in social science research. The aim of the course is to acquaint you with the nature and structure of a variety of techniques and to provide you with experience in applying these techniques

to substantive problems. Topics include: Concepts and Definitions Theoretical Frameworks, Data Collection, Data Preparation and Quality, Data Analysis, Relevant Indicators and their interpretation, Fertility, Mortality and Morbidity, Migration, Nuptiality, Life Table Construction, Population Estimates, Population Projections.

STAT3031 LIVING STANDARDS MEASUREMENT **Credit 3**

This course will expose students to the tools used to assist in classifying living standards of specified populations. Topics include: Concepts and Definitions, Theoretical Frameworks, Data Collection, Data Preparation and Quality, Data Analysis, Relevant Indicators and their interpretation, Poverty Analysis, Consumption Expenditure, Wealth Distribution.

STAT3071 LINEAR REGRESSION MODELS **Credit 3**

Students will communicate orally all stages of statistical analysis through a presentation in front of faculty and students. The problem must have a global component to be explained by the student.

STAT3062 APPLIED MULTIVARIATE STATISTICS **Credit 3**

In this course students will be exposed to a set of techniques used for analysis of data that contain more than one variable. Topics include: Multiple Regression, Binary/Multinomial/Ordinal Logistic Regression, Introductory Principal Components Analysis, Introductory Factor Analysis, Introductory Cluster Analysis, Introduction to Structural Equations Modeling.

STAT3042 INTRODUCTION TO ECONOMETRICS **Credit 3**

This course introduces students to the application of statistical methods to the study of economic data and problems. Topics include: Underlying Mathematical and Statistical Principles, Theories and Models, Techniques of Regression Analysis, Two Variable Regression, Multiple Regressions, Logits and Probits, Model Specification, Assumptions, Violations and Remedies, Time Series Analysis.

STAT4051 QUANTITATIVE SPATIAL STATISTICS **Credit 3**

Spatial statistics is a branch of statistics used to analyze data that are observed on a 2 or 3-dimensional surface. This course is intended as an introduction to spatial statistics and aims to provide students with the background necessary to investigate geographically represented data. This course focus will be placed on methods that are relevant in the fields of public health, environmental science, and social science. Lectures will cover the three main areas of spatial statistics: geostatistical data, lattice (areal) data, and point patterns.

STAT4101 DESIGN & ESTIMATION IN SURVEY SAMPLING **Credit 3**

This course covers various sampling design methods including how to collect and process data, how to use techniques in reducing sampling related errors, and how to prepare questions in surveys. Topics include Key Concepts in Survey Sampling, Survey Sampling Theory, Survey Sampling Methodology, Survey Sampling Designs, Sample Size Estimation, Introduction to Complex Sampling Designs, Introduction to Variance Estimation.

STAT4121 TOPICS IN SURVEY RESEARCH **Credit 3**

Topics include Administrative Issues in Survey Research, Measurement in Survey Research, Reliability Assessment, Validity Assessment Instrumentation and Questionnaire Design, Data Collection in Survey Research, Errors in Survey Research, Data Preparation and Quality Control in Survey Research, Survey Research Findings - Presentation and Communication.

STAT4992 INTERNSHIP **Credit 3**

This course allows students to engage in work that is immediately useful to a local establishment. Students provide service to the establishment by filling a need for statistical expertise. They are expected to assist with data preparation, engage in fieldwork and perform analysis with sample surveys or any data at any of the arms of the National Statistical System within Belize. The student has the option of doing their internship in modules for the summers (semester III) of year1, year2 and year 3 or do a one-time internship for the entire semester 2 of Year 4.

SWRK1101 INTRODUCTION TO SOCIAL WORK **Credit 3**

The purpose of this course is to help students develop a more authentic understanding and appreciation of the social work profession. Students will be exposed to what social workers do and the importance of considering the environmental context that surrounds decision-making and problem-solving processes. Professional social workers help people by enhancing or restoring their social functioning. They also create societal conditions that are favourable to the well-being of clients including eliminating poverty and oppression. Topics include, where social workers work, how social workers work with individuals, families, groups and communities and the knowledge, values, and skills they use to solve problems.
This course will consist of an overview of the profession and will introduce students to the generalist perspective of social work practice. This course will provide a broad overview designed to introduce the field and to answer beginning level questions of those considering this profession as a possible career choice. An introduction of social work at three levels-- Micro, Mezzo, Macro--will be presented. Activities are included to give the beginning professional a sense of 'hands on' learning.
Pre-requisite(s): ENGL1014
Co-requisite(s): ENGL102

SWRK1152 SOCIAL WORK PRACTICE THEORIES **Credit 3**

Social Work Practice Theories is a course that exposes students to various theories used in social work practice and explores the main tenants and underpinnings of the theories.Theories are used in social work to aid in understanding persons and their environments across all contexts and system levels. The course supports human behavior courses and provides a platform for the formulation of interventions. This course focuses on practice theories at micro, mezzo, and macro levels.
Pre-requisite(s): PSYC1014 ENGL1014

SWRK2101 HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT0 **Credit 3**

Human Behavior and the Social Environment I is the first of a two-course sequence that looks at human growth and development across the lifespan within the context of a social systems perspective from infancy to adolescence. The course covers selected theories from the social, psychological, and physical sciences to provide the conceptual underpinnings for understanding the interaction between human behavior and social environments. This course focuses on the influence of human diversity, ethnic/cultural, and gender differences, family and social contexts, social issues including discrimination, economic deprivation and oppression, and values and ethical issues are considered throughout this course. Emphasis is placed on understanding human growth and development in the

multicultural context of the Belizean and Caribbean environment.
Pre-requisite: ENGL1014
Co-requisite: SWRK1152

SWRK2151 SOCIAL WORK PRACTICE 1 **Credit 3**

This course prepares students for professional practice in the multicultural setting of Belize; develops self-awareness, professionalism, sensitization to the knowledge, values, and skills for work with individuals; and introduces students to social service agencies, policy, and procedures that affect service delivery. It presents generalist practice Social Work from a multicultural perspective. It teaches the student; a process beginning with identifying client concerns, engagement, information gathering, assessment, implementation, and concluding with an evaluation. This is done within the framework of social work values and ethics to strengthen and empower individuals as well as systems. Emphasis will be on sensitivity to human and cultural diversity, issues including but not limited to gender, sexual orientation, ethnicity, and disabilities.

Practice 1 is the first in a four-part generalist practice series. It provides the students with the necessary basic skills and building blocks for a generalist social work practice providing direct and indirect services at a micro, mezzo, and macro level. Students are introduced to the science and art of working with individuals, making ethical decisions, developing ethnic, gender, and racial sensitivity. Students will explore the role of a generalist Social Worker in a multicultural society and discuss Social Work in Belize.

Pre-requisite(s): SWRK1101, SWRK1152, SWRK2101, ALHL2951, ENGL1035

SWRK2202 SOCIAL WORK PRACTICE II **Credit 3**

This course presents generalist practices of social work from a multicultural perspective. It focuses on professional development and teaches students a process beginning with identifying areas of concern, engagement, information gathering and assessment, designing and implementing interventions, and evaluating interventions with families within a framework of social work values and ethics. Major theories of family interventions are examined and applied to cases. Sensitivity to cultural and human diversity issues, including gender, sexual orientation, ethnicity, and specific life challenges in all phases of the helping process, is emphasized.

Pre-requisite(s): SWRK1152, SWRK2101, ENGL1035

SWRK2252 SOCIAL WORK ETHICS AND CRITICAL THINKING **Credit 3**

Examines the moral fabric of the human condition, the exploration of self-questioning, and helps students to develop their critical thinking skills in the context of social work practice. Additionally, the ethics of the social work profession are integrated within the field internship and applied to actual cases. Topics include Code of Ethics; National and International Associations of Social Workers; personal ethics and values; personal values; neutrality and imposing values; guidelines for ethical decision-making; privacy, confidentiality, and informed consent; equality, inequality, and limited resources; Civil Liberties and Justice; UN declaration of human rights; ethical dilemma; reserved for program students.

Ethical problems arise whenever and wherever people deal with human lives, human survival, and human welfare—activities that social workers are involved in daily. Ethics and Critical Thinking is a course designed to assist students in analyzing ethical quandaries, learning techniques for making better ethical decisions and becoming aware of the ethical aspects of the practice of Social Work in Belize. Students examine current codes of ethics from other countries and present current issues confronting Belizean society.

Pre-requisite(s): SWRK1152, 2101, PHIL1014

SWRK2304 DISASTER PREPAREDNESS **Credit 3**

This course is designed to respond to Belize's vulnerability to natural and human-caused disasters. Emphasis will be placed on recognizing disasters, methods of disaster preparedness, and the development of disaster plans from the individual to the community levels. Students will also develop skills in disaster response to include disaster relief in terms of meeting basic human needs and offering crisis support services.

The overall aim of the course is to prepare social workers with the requisite skills and knowledge to effectively participate in disaster preparedness and relief efforts. As an outcome, we expect to have committed and knowledgeable social work professionals who can provide psychosocial responses for children, adults, and other helpers and function as a part of multidisciplinary teams in the response and recovery phases.

Pre-requisite(s): SWRK2151, SWRK2202, SWRK2252, SWRK3101

SWRK2992 FIELD INTERNSHIP 1 **Credit 6**

This course expects students to work in a social work setting using skills and knowledge with individuals and families for the purpose of translating abstract knowledge and principles from classroom learning into practical applications in the field. Students are placed in their internship in blocks of time (240 contact hours) to provide maximum attention to their learning goals and activities. In the internship, students are expected to integrate knowledge, skills, values and use of the professional self, gained in the previous practice courses and to adhere to ethical standards while receiving weekly supervision and consultation (Seminar), by a qualified field supervisor/instructor from University of Belize Social Work Faculty.

The seminar experience will be used to explore the application of the nine core competencies to the assigned field placement.

Pre-requisite(s): SWRK1101, SWRK1152, SWRK2101, SWRK2151, SWRK2202, SWRK2252, SWRK3101

SWRK3101 HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT 2 **Credit 3**

Human Behavior and Social Environment II is the second of the two-course sequence that looks at human growth and development across the lifespan within the context of a social systems perspective from adolescence to late adulthood. The course covers selected theories from the social, psychological, and physical sciences to provide the conceptual underpinnings for understanding the interaction between human behavior and the social environment.

The course focuses on the influence of human diversity, cultural, racial and gender differences, family and social contexts, social issues including discrimination, economic deprivation and oppression. Values and ethical issues are considered throughout this course. Emphasis is placed on understanding human growth and development in the multicultural context of the Belizean environment.

Pre-requisite(s): SWRK2101

SWRK3151 INTRODUCTION TO SOCIAL POLICY **Credit 3**

This course is designed to provide an overview of social policy principles and concepts with a focus on key Belizean social issues and their relationship to social work. The course reviews the philosophical and value-based underpinnings of social policy relations (human rights-constitutional rights, freedom, justice, and democracy) with strong linkages to practice. The course also examines the processes by which social policies and programs are identified, developed, debated, advocated, administered, evaluated, and refined. In this regard, students will (a) be introduced to techniques of social policy analysis, (b) examine political, economic and social systems and institutions, (c) examine the basic tools of policy influence and monitoring, and (d) relate social policy to the practice of social work.

The principles and processes discussed will be applied to current social issues/problems, social legisla-

tion, social programs and social services so as to promote an understanding of the need for a commitment that extends beyond the preparation of practitioners for employment in a single setting. Special attention is given to issues of human rights, poverty reduction, macroeconomics, governance, culture, migration, health, education, and globalization with respect to policy development in Belize.
Pre-requisite(s): SWRK2304, SWRK3201

SWRK3351 MULTICULTURAL SOCIAL WORK **Credit 3**
This course is designed to examine the issues involved in social work practice in multicultural settings and the diverse population groups. The course will relate theory and practice issues to the student's personal values, beliefs, skills and knowledge. Students will be able to develop and expand their awareness of the diversity of humans and cultures in the Belizean and global society, and emphasis will be placed on addressing key concepts that are essential to having effective practice from a multicultural standpoint.
This course will introduce social work students to the concept and nature of modern-day oppression: its origins; its causes; its various forms; its dynamics; the social processes and practices that produce and reproduce it; the political functions it carries out for the dominant group; its effects on oppressed groups; and the various responses of oppressed persons to it including internalized oppression. The situation and experiences of several oppressed groups in Belizean society will be examined, and anti-oppressive forms of social work practice at all levels of intervention will be explored.
Pre-requisite(s): SWRK1101, SWRK1152, SWRK2101, SWRK2151, SWRK2202, SWRK2252, SWRK2304, SWRK3101, SWRK3201, SWRK3151, SWRK3251, ALHL2951, SWRK3601

SWRK3502 SOCIAL WORK RESEARCH **Credit 3**
This is an introductory course in social sciences research methodologies designed to provide a scientific, analytic, and ethical approach to building knowledge for practice using both qualitative and quantitative research methods used in social science research.
This course will require students to conduct a practice evaluation (AB Design) research and introduce students to qualitative and quantitative methods used in social sciences. Students will learn methodologies and techniques that facilitate the research process, such as gaining access to a setting, data collection and analysis, and report writing.
Pre-requisite(s): SWRK1101, SWRK1152, SWRK2101, SWRK2151, SWRK2202, SWRK2252, SWRK2304, SWRK3101, SWRK3201, SWRK3151, SWRK3251, ALHL2951, SWRK3601, RSCH2014

SWRK3201 SOCIAL WORK PRACTICE III **Credit 3**
Social Work with Groups seeks to provide students with knowledge and skills in group development, facilitation, and interventions with a variety of small and large groups. Students will practice using the problem-solving model, beginning with identifying areas of concern, engagement, information gathering, and assessment, designing, implementing, and evaluating change within a framework of social work values and ethics, cultural awareness, strength, and empowerment approach.
This is the third in a series of practice courses designed to adequately prepare students to practice in the role of generalist practitioners; all practice courses build upon and broaden the knowledge, values, and skills learned in the previous practice courses. Students are expected to be able to utilize knowledge from the human behavior sequence as they develop skills in interviewing, assessment, goal setting, planning, intervention, termination, follow-up, and evaluation with micro, mezzo, and macro populations
Pre-requisite(s): SWRK2202, SWRK2252
Co-requisite(s): SWRK3251

SWRK3251 SOCIAL WORK PRACTICE IV **Credit 3**

This course orients students to the context, theory, and practice of macro social work. This course prepares students to use professional knowledge, values, and skills in generalist practice with organizations and communities. Students are introduced to Social Work's historic and current commitment to social change that promotes the well-being of people, with an emphasis on empowering marginalized individuals and advancing social and economic justice. Through interacting with communities, students build skills regarding mutual, collaborative, and respectful professional relationships with community members and other professionals. They learn how to assess characteristics, dynamics, strengths, and problems of human service and community-based organizations and service delivery systems. Students examine social work roles and skills used to influence social change and apply the planned change process with organizations and communities.

Pre-requisite(s): SWRK1152, SWRK2151, SWRK2202, SWRK2252

Co-requisite(s): SWRK3201

SWRK3301 HUMAN RIGHTS AND SOCIAL WORK **Credits 3**

Social work values and ethics have their roots in human rights concepts. This course provides an introduction to human rights instruments, and an understanding of how human rights covenants and conventions become national law and the ensuing responsibilities of a nation following ratification of these instruments. Students will be exposed to the UN family and the roles and responsibilities of each division. Special emphasis will be placed on human rights issues in Belize and the social worker's role of advocate. The course synthesizes relevant knowledge of literature and experience related to historical and current trends and strategies/practice issues in the areas of human rights. A major focus will be relating the human rights framework to issues of protection for children, people with diverse abilities, older adults, and other marginalized groups.

Pre-requisite(s): SWRK0101, SWRK0152 & SWRK 2151

SWRK3601 SUBSTANCE MISUSE AND ADDICTION TREATMENT **Credits 3**

Students will acquire an overview of the dynamics of alcohol and psychoactive drug addictions, including identification, assessment, treatment, referral of persons with alcohol and other drug-related problems, and prevention strategies. Theory and knowledge on drugs and alcohol related to social work practice are emphasized. Drugs are defined to include caffeine, nicotine, drugs used for psychiatric treatment and behavior control, as well as alcohol and drugs associated with misuse and dependency. This course facilitates students' understanding of the diverse needs of clients with substance misuse addictions. Additionally, students evaluate the motivation and behavior patterns of substance misusers in a broad social context. Risk factors, education, and prevention are explored. Substance misuse assessment, intervention, and treatment are addressed. The impact of substance misuse, dependency, and addiction at the micro, mezzo, and macro levels are explored.

Pre-requisite(s): SWRK1101, SWRK1152, SWRK2101

SWRK3991 FIELD INTERNSHIP II **Credit 6**

This course expects students to work in a social work setting using skills and knowledge with groups and communities for the purpose of translating abstract knowledge and principles from classroom learning into practical applications in the field. Students are placed in their internship in blocks of time (240 contact hours) in order to provide maximum attention to their learning goals and activities. In the internship, students are expected to integrate knowledge, skills, values and use of the professional self, gained in the previous practice courses and to adhere to ethical standards while receiving weekly supervision and consultation (seminar), by a qualified field supervisor/instructor from University of Belize Social Work Faculty.

In the field experience the student will be attached to an agency and an identified mentor. The seminar

experience will be increased and will be used to explore the application of the nine core competencies through case scenarios and application to the assigned field placement.
Pre-requisite(s): SWRK2991

SWRK3401 COUNSELLING 1 **Credit 3**
This is a practice-based course designed to teach social workers basic counseling skills (level0), integrating person- centered theory with practice in the multicultural reality of Belize. thus reflecting the social work values and ethics as it relates to diversity in theory application and intervention. There is a field component to this course in which students will engage in supervised direct basic counseling practice for forty hours. Topics include: the counselor as a person: self-awareness; cultural self-awareness; personal values; philosophy of life; the counselor as a professional: counseling values; multicultural issues; burnout; ethical and professional issues: standards of practice; cultural implications; counseling skills. Course Specifics: This course is required for the BSOW program
Pre-requisite(s): SWRK1101, SWRK1152, SWRK2101, SWRK2151, SWRK2202, SWRK2252, SWRK2304, SWRK3101, SWRK3201, SWRK3151, SWRK3251, ALHL2951, SWRK3601

SWRK3401L COUNSELLING I LAB **Credit 1**
Counseling0 Lab is the practical component of the Counseling0 course, which primarily focuses on the art of counseling and introduces students to various theories. Students practice beginning counseling skills and are exposed to several theories. Additionally, the lab is designed to generate greater self-awareness, promote effective communication skills (interviewing and questioning), and practice micro skills.
Pre-requisite(s): SWRK 2151, SWRK 2202, SWRK 2252, SWRK 3101, SWRK 3251, & SWRK 3991
Co-requisite(s): SWRK 3351, SWRK 3401

SWRK3452 COUNSELLING II **Credit 3**
Counseling II is the second of two counseling courses that are practice-based and designed to train social worker practitioners in basic counseling skills that integrate theory with practice. Students will apply various therapy activities and approaches relevant to the specific client(s) needs with clear objectives founded on theory. The course will consider the multicultural reality of Belize in responding to basic counseling service demands from a social work perspective at the micro level.
Pre-requisite(s): SWRK3401, SWRK3401L

SWRK3452L COUNSELLING II LAB **Credit 1**
Basic Counseling II lab is the practical component of the Counseling II course designed to train social worker practitioners in basic counseling skills that integrate theory with practice. Students will apply various therapy activities and approaches relevant to the specific client(s) needs with clear objectives guided by best practice and theory. The course will consider the multicultural reality of Belize in responding to basic counseling service demands from a social work perspective at the micro level.
Pre-requisite(s): SWRK3401, SWRK3401L, SWRK4101

SWRK3552 SOCIAL WORK AND THE LAW **Credit 3**
This course is designed to introduce the Belizean legal system and the various pieces of legislation that intersect with social work practice in Belize. The course examines some of the many critical perspectives on law, the legal system and the legal processes that interact with our professional practice. It explores the roles of the actors within the system and special attention is given to those roles played by the social services practitioner, including those of investigator, guardian ad litem, advocate, and witness. The social work practice issues that arise from fulfilling these various roles will be examined and students will be taught practical skills such as court advocacy and report writing that will assist in

the successful fulfilment of these roles. Students will be sensitized to the various ethical, human, and cultural diversity issues that arise from practice within the legal system.
Pre-requisite(s): ALL YEAR 2 and 3 PROFESSIONAL CORE COURSES, SWRK3301, SWRK3351, SWRK3401, SWRK3401L

SWRK4101 FAMILY VIOLENCE **Credit 3**
Acts of violence permeate the Belizean society. Statistics show an increase of violent acts of all types in both rural and urban Belize, primarily affecting the women and children of Belize. The purpose of this course is to prepare front-line professional helpers, primarily social workers and nurses, to identify and deliver treatment and preventative services to victims and family members with respect to issues of violence. The course will take a lifespan approach, progressing from child abuse to domestic violence and abuse of older persons. This is the first joint course offered to social work and nursing practitioners, which emphasizes the importance of a collaborative approach to working with families who are victims of violence. Social workers and nurses who are educated together will develop an understanding of the strengths and limitations of both professions and develop suggested protocols to better work together in the best interest of the Belizean family. Course Specifics: For Social Work and Nursing Students.
Pre-requisite(s): ALL YEAR 2 and #3 PROFESSIONAL CORE COURSES

SWRK4152 SOCIAL WORK SUPERVISION **Credit 3**
Social Work Supervision introduces students to supervision concepts, stages of development, and skills for effective leadership as a supervisor. The course covers selected theories for working with client systems while reviewing the context of supervision, conduct of supervision, legal and regulatory issues in supervision, ethical concerns, technology, evaluation and outcomes, and termination. Emphasis is placed on understanding roles, functions, and practice within a generalist framework grounded in social work ethical practice.
Pre-requisite(s): SWRK3301, SWR 3351. SWRK3401, SWRK3401L

SWRK4202 INTRODUCTION TO PSYCHOPATHOLOGY AND MENTAL HEALTH **Credit 3**
This course examines psychopathology and mental disorders from an ecological perspective. Emphasis is placed on understanding biopsychosocial influences on the incidence, course, and treatment of the most prevalent mental disorders and the effect of these on diverse populations. The course emphasizes the acquisition of diagnostic skills as they relate to comprehensive social work assessment and interventions. Ethical issues, collaboration with families, knowledge of basic psychopharmacology treatment, and the roles social workers play in mental health settings.
The Diagnostic Statistical Manual (DSM 5, 2014) and the International Classification of Diseases (ICD-10) are used as an organizing framework for reviewing mental disorders—discussion of strengths and weaknesses of this system, the role of social workers in psychiatric diagnosis, the relationship of diagnosis to social work assessment, practice, legal, cultural and ethical issues.
The course focuses on the acquisition of diagnostic skills as they relate to comprehensive social work assessment of adults, adolescents, and children. Knowledge of psychotropic drugs and the roles of social workers as part of an interdisciplinary treatment team is presented.
Pre-requisite(s): All GE Courses
Co-requisite(s): SWRK1152, SWRK2101, SWRK3351, ALHL2951

TAXA3011 TAXATION 1 **Credit 3**
This is a three-credit transfer-level course. Topics emphasized include direct and indirect tax, income tax, business and general sales tax in Belize, CARICOM Double Taxation agreement and basic concepts of consumption tax.
Pre-requisite(s): ACTG1054

TAXA3052 TAXATION 2 **Credit 3**

Taxation II course aims to provide students with an understanding and relevance of the Tax Policies in Belize, and their national and international implications. Examine global issues (National and International) that affect companies. Review the Income and Business Tax Act, and the implications of The International Business Companies Act, the Strata Act, and the Double Tax Agreement Act, and the General Sales Tax Act.Provide students with realistic scenarios to better understand the interconnectivity of the various acts.

Pre-requisite(s): TAXA3011

TOUR1014 INTRODUCTION TO TOURISM **Credit 3**

This course introduces students to the tourism industry. Course topics include career opportunities; world, regional, national, and other organizations; hospitality and related services; organizations in the distribution process; attraction, recreation and entertainment; travel motivation; cultural and international tourism; sociology of tourism; tourism supply, demand, policy, planning, and development. Course specifics: Students will be required to participate in two field trips and work in small groups to prepare class projects.

Pre-requisite(s): NONE

TOUR1052 TOURISM GEOGRAPHY **Credit 3**

This course analyzes major factors influencing travel, international travel patterns, limitation and enhancement of global movement, and physical and geographical features associated with selected tourism destinations. Course specifics: students will be required to participate in a field trip and to work in small groups on a class project.

Pre-requisite(s): TOUR1014

TOUR2011 INTRODUCTION TO ACCOMMODATION MANAGEMENT **Credit 3**

This course introduces students to theory and practice relative to proficiency in the Accommodation Sector. Topics Include: hotel classification methods; organization of the hotel and rooms division; front office systems: past and present; housekeeping services; registration/check-in procedure; front office accounting methods; guest check-out and accounts settlement; cleaning procedures; wall and floor coverings; the linen room; the laundry room; room maintenance procedures; communication methods.

Pre-requisite(s): TOUR221

TOUR2051 SUSTAINABLE TOURISM **Credit 3**

This course provides an introduction to the study of the interrelationships between tourism and the environment. It is designed to introduce students to the optimum use of natural, cultural, social and financial resources for national development on an equitable and self-sustaining basis. Topics include: sustainable tourism principles; impacts of traditional tourism; partners needed for sustainable tourism; benefits of sustainable tourism; obstacles to sustainable tourism; the key actors in sustainable tourism; sustainable development and carrying capacity; sustainable tourism in different geographical areas; influence of sustainable tourism on other sectors; sustainable tourism policies; the future of sustainable tourism. Course Specifics: Students will be required to prepare and defend a research paper on the assigned topic of Sustainable Tourism.

Pre-requisite(s): TOUR1014

TOUR2101 TOURISM PRODUCT DEVELOPMENT **Credit 3**

The Tourism Product Development course provides students with an in-depth understanding of the process of creating and enhancing tourism products, with a particular focus on Belize's diverse tourism landscape. Students will explore the life cycle of tourism products, conduct market research, and learn

how to develop sustainable and innovative tourism experiences that meet the evolving needs of global travelers. This course emphasizes real-world applications by integrating case studies, group projects, and individual research focused on local tourism challenges in Belize. By the end of the course, students will have developed the necessary skills to create tourism products that balance economic, environmental, and cultural sustainability.
Pre-requisite(s): TOUR1014

TOUR 2152 INTRODUCTION TO FOOD AND BEVERAGE MANAGEMENT **Credit 3**
This Course encompasses all aspects of the hospitality industry; however, it lies in the hands of the students to decide what creative techniques are best suited for them but keeping in the standards of the Industry. In doing so the program pledges to provide a positive experience, up lives the senses, instills wellbeing and fulfills even the unexpressed wishes and the needs of our vibrant students.
Students will also be introduced to the principles of the food and beverage industry with emphasis on the restaurant sector particularly developing the concept, menu, purchasing and storage, production and service, control, staffing issues, marketing, quality control and future trends and development.

TOUR2202 INTRODUCTION TO TOURISM MARKETING **Credit 3**
This course explores the application of marketing principles in the hospitality and tourism industries. Students will engage with topics such as customer journey mapping, CRM systems, branding, digital marketing strategies, sales funnels, and sustainable tourism. The coursework culminates in a comprehensive marketing plan, integrating theoretical knowledge and practical applications to prepare students for real-world challenges.
Pre-requisite(s): MKTG2015, TOUR1014

TOUR2252 TOURISM POLICY AND PLANNING **Credit 3**
This course examines the fundamental concepts, processes, and frameworks underlying tourism policy and planning at local, national, and international levels. Emphasizing sustainability, students will explore how effective tourism policy and strategic planning can balance economic objectives with socio-cultural and environmental imperatives. The course critically reviews policy instruments, governance structures, and planning models that guide tourism development. Through case studies and applied projects, students will learn to identify stakeholder interests, propose policy solutions, and design holistic tourism plans. Special attention will be given to Belize's tourism context to illustrate both challenges and best practices in sustainable destination management.
Pre-requisite(s): TOUR1014

TOUR2995 INTERNSHIP **Credit 3**
The Associate Degree Program includes a work experience component which allows students to gain practical skills and observe and apply management principles and theories.
Pre-requisite(s): Complete 3 semester in tourism program

TOUR3011 RECREATIONAL PLANNING **Credit 3**
The Recreational Planning course is designed to provide students with a comprehensive understanding of the principles, practices, and challenges involved in the planning and management of outdoor recreational spaces. With a focus on sustainable development, resource management, and the specific recreational needs of Belize, this course equips students with the knowledge and practical skills needed to develop functional, inclusive, and environmentally responsible recreation areas. Through the integration of real-world case studies, hands-on group projects, and exposure to international trends, students will explore a wide array of topics, including recreational resource management, visitor satis-

faction, carrying capacity, specialization in recreation, and conflict management in outdoor settings. By the end of the course, students will be capable of applying cutting-edge recreational planning techniques to address the diverse challenges faced by Belize's recreational planners.

TOUR3051 HOSPITALITY LAW **Credit 3**

This course introduces legal principles together with standard business law concepts and emphasizes their implications for the hospitality and tourism industry. It identifies areas where there may be potential legal problems, and discusses rights and liabilities relative to relationships within the industry. Among the topics to be discussed are: contracts, torts and negligence, hotel/guest relationship, consumer protection and employment laws.

Throughout the course case studies involving the basic principles of law will be introduced, this is to assist students in developing judgment in these areas of the law.

Pre-requisite(s): BLAW2014

TOUR3101 HOSPITALITY MANAGERIAL ACCOUNTING **Credit 3**

This course permits students to apply what they have learned as they become Hospitality Managers in the industry. The course will show managers how to use accounting information to achieve their personal and professional goals. Through exercises and problems, students will gain an understanding of generally accepted accounting principles. Students will be able to prepare and analyze income statements, balance sheets and statements of cash flow as well as how financial ratios are used to evaluate and analyze these documents. Students will also be introduced to food and beverage pricing, managerial accounting for costs, forecasting in the Hospitality industry, budgeting and internal control.

Pre-requisite(s): ACTG1014

TOUR3152 HOTEL AND RESTAURANT MANAGEMENT **Credit 3**

This course is designed to introduce students to the scope of the hotel industry and the organizational structure and operational mechanics of how the departments within hotels operate. Understanding the scope of the industry involves understanding who the major players are and what market segments their brands serve. Students gain an understanding of how work is performed and how activities are coordinated within and between hotel departments, and a special emphasis is placed on small properties and those that include restaurants. Topics include: the early inn and tavern; modern hotel; hotel/motel finance; hotel architecture and design; hotel organization and operations; food and beverage operations; the resort business; the restaurant business; restaurant finance and control; franchising and fast-food; institutional food service; the commercial kitchen; management of people.

Pre-requisite(s): TOUR1014, MGMT1014

TOUR3202 FOOD AND BEVERAGE MANAGEMENT **Credit 3**

Students are introduced to the principles of food service operations, beginning with an overview of the food service industry at large. Attention is initially focused on major industry segments, business practices, and trends. Emphasis is given to the components of the foodservice system: marketing; menu planning; production; service; controls; and quality assurance. Topics include: an introduction to food and beverage operations; menu planning and costing; quality control and safety.

Pre-requisite(s): TOUR1014, MGMT1014

TOUR3203 MANAGING NON- GOVERNMENTAL ORGANIZATION **Credit 3**

This course will familiarize students with the critical competencies required for managing NGOs in the tourism sector. Topics include legal and regulatory framework, challenges, responsibilities of NGO directors and managers, and best practices. The role of NGOs in managing Belize’s tourism assets will

be a significant concentration of the course.

TOUR3252 PURCHASING FOR HOSPITALITY OPERATIONS **Credit 3**

This course is designed to introduce students to principles and practices of purchasing.Technological approaches to purchasing will also be addressed since technology is fast growing and it connects the world. This course provides necessary information for students interested in working for foodservice or lodging operations.

Course specifics: students will be required to participate in a field trip and to work in small groups on a class project.

Pre-requisite(s): TOUR1014

TOUR3302 TOURISM ECONOMICS **Credit 3**

This course explores the microeconomic theory of consumer behavior and demand, rudimentary cost analysis, and competitive, economic, and technological environments of tourism-related industries. At the macroeconomic level it looks at the impact of macroeconomic variables on tourism and the influence of tourism in the economy.

Pre-requisite(s): ECON2014, ECON2054, TOUR3011

TOUR4011 ADVANCED TOURISM MARKETING **Credit 3**

This course is designed to prepare students for marketing in this dynamic tourism and hospitality industry.Students will focus on issues that are critical for success in the global marketplace. This industry is very customer oriented, and students need to know what makes customers satisfied in order to keep selling their products. Tourism marketing covers important principles and concepts such as behavioral sciences and management theory and takes a practical marketing approach. Students completing this course will be ready to enter the workforce and prepared to address global marketing.

Pre-requisite(s): MKTG2015 & TOUR1014

TOUR4051 MANAGING FRONT OFFICE OPERATIONS **Credit 3**

This course introduces students to the operations and procedures involved in managing the Front Office area of an accommodation establishment. It focuses on the traditional and modern hotel industry; changing methods for making today's reservations; individual and group reservations; site inspection; forecasting availability and over- booking; managing and guest service; setting the room rate; billing the guest; cash transactions; the night audit and property management system interfaces. Course Specifics: Site Inspections and Computer Lab Activity.

Pre-requisite(s): TOUR1014 & MGMT1014

TOUR4052 DESTINATION PLANNING AND MANAGEMENT **Credit 3**

The course focuses on providing knowledge to students about models and theories of destination management, management needs and processes. It equips students with skills to handle tourists/visitors, host communities, private sector and public sector at various destinations – to enable a destination to achieve sustainability and enhance tourist visitor satisfaction.

TOUR4101 CONVENTION MANAGEMENT SERVICES **Credit 3**

This senior level course addresses one of the fastest growing segments in the hospitality industry, allowing students to examine the fundamental aspects of event and conference management and placing emphasis on the marketing, planning, costing, executing and evaluation of events. Topics include: event management: concept and design; feasibility; legal compliance; marketing; promotion; financial and

risk management; planning; protocol; staging; staffing; leadership; operations and logistics; safety and security; crowd management and evacuation. Course specifics: requires students to examine the selection of sites, transportation, food and beverage planning, social functions, publicity, and audio-visual requirements; to develop and present a major project that must detail the planning and management of a conference from conception to fulfillment.
Pre-requisite(s): TOUR1014, MGMT1014

TOUR4102 CULTURAL HERITAGE AND TOURISM **Credit 3**
The Cultural Heritage and Tourism course is designed to provide students with a deep understanding of how cultural heritage assets can be leveraged to create meaningful and sustainable tourism products. Through a combination of theoretical insights and practical applications, students will explore the role of heritage tourism in promoting and preserving cultural identity, while also contributing to economic development. The course will focus on Belize's cultural heritage, including tangible and intangible assets, and will place local heritage in a global context, analyzing case studies from other regions and nations.
Students will engage with contemporary issues such as regenerative tourism, community-based tourism, and the digital management of heritage sites, preparing them for careers in cultural heritage tourism. Additionally, the course emphasizes the latest trends in heritage conservation, tourism marketing, and the use of digital tools to enhance the visitor experience. Throughout the course, students will be encouraged to think critically about the challenges and opportunities presented by tourism development and heritage preservation.