



# The Bahamas Agriculture Marine and Science Institute



## 2021-2023 COLLEGE CATALOG



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# 2021-2023 Course Catalog

## Message from the Executive Director



**Dr. Raveenia Roberts-Hanna, Ph D.**  
***Executive Director, BAMSI***

Dear Students,

Welcome to the Bahamas Agriculture and Marine Science Institute in Andros. I am sure you will find Andros a warm and welcoming place. You can expect to be rewarded greatly for this choice. BAMSI is the place where your life will be transformed. With the expert scientific and practical training you will receive, you will be able to make substantial contributions anywhere in the world as someone who possesses a real understanding of how the agriculture and marine worlds work. We are confident that your educational and career goals will be met here.

The experience you have at BAMSI will depend on you, on both your enthusiasm and your diligence. Your success and ours at the Bahamas

Agriculture and Marine Science Institute depend on your willingness to set clear goals and stay committed to completing them through full engagement and immersion in the learning process, both in and outside of the classroom. However, there are many people here who are prepared to help you along the way. This Handbook and Planner is designed to assist you in laying out your course of action during your program and, through preparedness, to avoid drawbacks in the pursuit of your success.

This student handbook is meant to be a resource for you as you navigate your way to graduation. You will find useful information that presents a full picture of the Institute and the ways in which we provide programs and services to help you in achieving your goals. I hope that this student handbook answers many of your questions. The information is as up-to-date as possible, but please be aware that some changes in detail are inevitable. I also hope you have an instructive, interesting and, above all, enjoyable time here. All of the best for a rewarding future!

Dr. Raveenia Roberts-Hanna, Ph D.  
Executive Director, BAMSI



## Mission, Vision & Core Values

### Mission

To be the leader in providing first-class education, cutting-edge technology and technical training in agriculture, marine sciences and related disciplines. We are devoted to a nationwide mission of inspiring entrepreneurs and preparing students for successful careers with a focus on environmental stewardship, leadership, research and outreach.

### Vision

BAMSI will cultivate, through an unwavering commitment to education, training and innovation, a dynamic experiential learning environment for agricultural and marine sciences and related disciplines that is student-focused, environmentally friendly, science-based, sustainable, technologically driven and services the needs of the Bahamas.

### Core Values

The following core values and principles are embraced by faculty and staff of the Bahamas Agriculture and Marine Science Institute. These values guide our teaching, research, and outreach activities and support our Mission and Vision:

- Promoting academic excellence
- Facilitating knowledge transfer and critical thinking
- Focusing on student needs and development
- Fostering a community of leaders and entrepreneurs
- Encouraging research and innovation
- Ensuring integrity and ethics in our actions
- Facilitating community engagement, partnership and outreach
- Supporting environmental sustainability and stewardship

## Academic Calendar

### SUMMER 2021

Campus facilities re-open	Friday, May 7th
Summer Session I begin and late registration	Monday, May 10th
Internship begins	Monday, May 10th
Add/Drop Deadline	Wednesday, May 12th
Commencement Exercises	Thursday, May 13th
Last day to withdraw without academic penalty	Friday, May 21st
<b>WHIT MONDAY HOLIDAY (Campus Closed)</b>	<b>Monday, May 24th</b>
<b>LABOR DAY HOLIDAY (Campus Closed)</b>	<b>Friday, June 4th</b>
Internship ends	Friday, June 24th
College Readiness Program	July 1st – July 30th
Summer Session I ends & Deadline for Internship Report	Friday, July 2nd
Final examinations begin	Monday, July 5th
Final examinations end	Tuesday, July 6th
Summer Workshop – on site training	Monday, June 28th – Friday, July 2nd
Deadline for grade submission to Office	Thursday, July 8th
SEEDS Program & Summer Session II begins	Monday, June 28th
Unofficial Transcript available on-line	Friday, July 9th
SEEDS Program ends	Friday, July 2nd
Summer Session II ends	Friday, August 6th

### FALL 2021

Dorm Opens for New Student	Friday, August 13th
Deadline for Fall payment (late fees applied after this date)	Friday, August 20th
Orientation for new & returning students	August 16th – 20th
Classes begin and Late Registration	Monday, August 23rd
Add/Drop deadline	Friday, August 27th
Last day to pay for late registrants	Friday, August 27th
Mid semester break begins (campus facilities closed)	Thursday, October 7th
Mid semester break ends (campus facilities closed)	Friday, October 8th
<b>NATIONAL HEROES DAY (PUBLIC HOLIDAY, Campus Closed)</b>	<b>Monday October 11th</b>
Campus reopens	Tuesday, October 12th
Mid semester Examinations begin (Campus Re-opens)	Tuesday, October 12th
Mid semester Examinations end	Monday, October 18th
Accepting applicants for Spring 2021 (online & certificate programs)	Monday, October 18th
Last day to withdraw without academic penalty	Friday, October 22nd



Advisement for Spring 2022 semester begins	Monday, November 22nd
Advisement for Spring 2022 semester ends	Friday, November 26th
Classes end	Friday, December 3rd
Final examinations begin	Monday December 6th
Final examination end	Friday, December 10th
Challenge Examination	Friday, December 10th
Students vacate & dorms closed	Sunday, December 12th
Deadline for payment for Spring 2022 (late fee applies after this date)	Friday, December 17th
Unofficial Transcript available online	Friday, December 17th
Deadline to apply for resit	Friday,, December 22nd
<b>CHRISTMAS EVE (observed) Campus Closed</b>	<b>Friday, December 24th</b>
<b>CHRISTMAS DAY (observed) Campus Closed</b>	<b>Saturday, December 25th</b>
<b>BOXING DAY (observed) Campus Closed</b>	<b>Monday, December 27th</b>

## SPRING 2022

<b>NEW YEAR'S DAY (PUBLIC HOLIDAY) Campus Closed</b>	<b>Friday, January 1st</b>
Campus Reopens	Monday, January 3rd
Resit/Registration/Orientation	Tuesday, January 4th
Deadline to submit Tuition Waiver Application	Friday, January 7th
<b>MAJORITY RULE DAY (PUBLIC HOLIDAY)</b>	<b>Monday January 10th</b>
Classes begin and Late Registration	Tuesday, January 11th
Add/Drop begins	Wednesday January 12th
Add/Drop end	Tuesday, January 18th
Mid semester break begins (campus facilities closed)	Thursday, February 24th
Mid semester break ends	Friday, February 25th
Campus reopens	Sunday, February 27th
Mid semester examinations begin (Campus Re-opens)	Monday, February 28th
Mid semester examinations end	Friday, March 4th
Last day to withdraw without academic penalty	Friday, March 11th
Deadline for Summer Internship Application	Friday, March 11th
Deadline for Fall 2022 applications	Friday, March 25th
<b>GOOD FRIDAY HOLIDAY (campus facilities closed)</b>	<b>Friday, April 15th</b>
<b>EASTER MONDAY HOLIDAY (campus facilities closed)</b>	<b>Monday, April 18th</b>
Classes end	Friday, April 22nd
Final examinations begin	Monday, April 25th
Final examinations end	Friday, April 29th
Students Vacate & Dorms Closed	Sunday, May 1st
Unofficial Transcript available online	Friday, May 6th
Deadline for summer classes registration and payment	Monday, May 9th

Campus facilities closed	Monday, May 9th
Commencement Exercises	Thursday, May 12th

## SUMMER 2022

Campus facilities re-open	Friday, May 13th
Summer Session I begin and late registration	Monday, May 16th
Internship begins	Monday, May 16th – June 24th
Add/Drop Deadline	Friday, May 20th
Last day to withdraw without academic penalty	
<b>LABOR DAY HOLIDAY (Campus Closed)</b>	<b>Friday, June 2nd</b>
<b>WHIT MONDAY HOLIDAY (Campus Closed)</b>	<b>Monday, June 6th</b>
Internship ends	Friday, July 1st
SEEDS Program	June 27th – July 1st
CROPS College Readiness Programme	June 27th – August 12th
Summer Session I ends & Deadline for Internship Report	Friday, July 1st
Final examinations begin	Monday, July 4th
Final examinations end	Tuesday, July 5th
Unofficial Transcript available on-line	Friday, July 8th
Summer Session II begins	Friday, June 27th
Summer Session II ends	Friday, August 12th
Final examinations	Monday, August 15th

## FALL 2022

Dorm Opens for New Student	Friday, August 19th
Deadline for Fall payment (late fees applied after this date)	Friday, August 19th
Orientation for new & returning students	August 22nd – 28th
Classes begin and Late Registration	Monday, August 29th
Last day to pay for late registrants	Friday, September 2nd
Add/Drop deadline	Monday, September 5th
<b>NATIONAL HEROES DAY (PUBLIC HOLIDAY, Campus Closed)</b>	<b>Monday, October 10th</b>
Mid semester break begins (campus facilities closed)	Tuesday, October 11th
Mid semester break ends (campus facilities closed)	Wednesday, October 12th
Mid semester Examinations begin (Campus Re-opens)	Thursday, October 13th
Mid semester Examinations end	Thursday, October 20th
Accepting applicants for Spring 2023 (online & certificate programs)	Wednesday, October 12th
Last day to withdraw without academic penalty	Friday, October 28th
Advisement for Spring 2023 semester begins	Monday, November 7th
Advisement for Spring 2023 semester ends	Friday, November 11th

Deadline for Fall Graduation Application/ Evaluation Form and Payment	Friday, November 25th
Classes end	Friday, December 2nd
Final examinations begin	Monday, December 5th
Final examination end	Friday, December 9th
Challenge Examination	Friday, December 9th
Students vacate & dorms closed	Sunday, December 11th
Deadline for payment for Spring 2023 (late fee applies after this date)	Friday, December 16th
Unofficial Transcript available online	Friday, December 16th
Deadline to apply for resit	Wednesday, December 21st
<b>CHRISTMAS DAY (observed) Campus Closed</b>	<b>Sunday, December 25th</b>
<b>BOXING DAY (observed) Campus Closed</b>	<b>Monday, December 26th</b>
Summer Session I begin and late registration	Monday, May 15th

## SPRING 2023

<b>NEW YEAR'S DAY (PUBLIC HOLIDAY) Campus Closed</b>	<b>Sunday, January 1st</b>
Campus Reopens	Tuesday, January 3rd
Dorm Opens for New Student	Wednesday, January 11th
Dorm Opens for returning students	Friday, January 12th
Registration/Orientation /new student	Wednesday, January 11th – Sunday, January 15th
Resit Exams	Thursday, January 12th
Deadline to submit Tuition Waiver Application	Friday, January 13th
<b>MAJORITY RULE DAY (PUBLIC HOLIDAY)</b>	<b>Tuesday January 10th</b>
Classes begin and Late Registration	Monday, January 16th
Add/Drop period	Wednesday, January 18th
Mid semester break begins (campus facilities closed)	Thursday, March 2nd
Mid semester break ends (campus facilities closed)	Friday March 3rd
Mid semester examinations begin (Campus Re-opens)	Monday, March 6th
Mid semester examinations end	Friday, March 10th
Last day to withdraw without academic penalty	Friday, March 14th
Deadline for Summer Internship Application	Friday, March 14th
Deadline for Fall 2023 applications	Friday, March 24th
<b>GOOD FRIDAY HOLIDAY (campus facilities closed)</b>	<b>Friday, April 7th</b>
<b>EASTER MONDAY HOLIDAY (campus facilities closed)</b>	<b>Monday, April 10th</b>
Classes end	Friday, April 21st
Final examinations begin	Monday, April 24th
Final examinations end	Friday, April 28th

Students Vacate & Dorms Closed	Sunday, April 30th
Unofficial Transcript available online	Friday, May 5th
Deadline for summer classes registration and payment	Friday, May 5th
Campus facilities closed	Monday, April 24th
Commencement Exercises	Thursday May 11th,



## Application Procedures

### Admissions Policies, Procedures and Requirements

For information on specific admission policies, procedures, and requirements for each individual programme, prospective students should read the admissions and entry information below.

#### How to Apply

1. Download and complete the Application Form online at the website:  
<http://www.bamsibahamas.com>.
2. Return the application to the Admissions Office or email to [admissions@bamsibahamas.edu.bs](mailto:admissions@bamsibahamas.edu.bs)
3. Also submit:
  - the non-refundable (BSD\$30.00) application processing fee
  - proof of nationality (passport and/or birth certificate)
  - proof of valid immigration status (for international students)

- a recent passport-sized photo, (if photo in passport is not recognizable)
  - full academic records:
  - official high school and/or college transcripts
  - external examination results (such as BGCSE, CXC, IGCSE)
4. Applicants seeking admission as Mature Students must provide evidence of relevant employment experience.

## Application Deadlines

BAMSI has a rolling admissions policy however we encourage applicants to submit their application and supporting documents as early as possible to take advantage of the dates listed below.

Fall Semester: **31 May** – Early admissions

Spring Semester: **31 October** – Early admissions

The printed copy of the online application form and all supporting documentation must be submitted by the advertised admissions deadline for an application file to be considered complete and ready for review. New students are not accepted for the Summer session. However, they may register for courses as non-matriculated students and will receive the credits whenever they matriculate.

## Application Fee

Applicants are required to pay the non-refundable BSD 30.00 application fee. The application fee can be submitted in Bahamian Dollars (BSD) or converted to United States Dollars (USD). Payment can be made by bank draft or money order, credit/debit card (American Express is not accepted), cash or through online payment on our website ([www.bamsibahamas.edu.bs](http://www.bamsibahamas.edu.bs)). Applicants are strongly encouraged to pay the application fee at the time the completed application form is submitted.

## Enrollment Confirmation

Once the completed application and all required materials have been received, BAMSI will make a decision about a student's admission.

Prospective students are generally notified of admission decision by email within two to four weeks of receiving all application materials.

Should you decide to accept the enrollment offer we encourage you to complete the enrollment form and pay the applicable fee. Your enrolment deposit reserves your seat, makes you eligible for scholarships, Government Tertiary Grant, and secures your dorm room. The deposit is \$100 for commuters and \$200 if you plan on living on campus.

## Failure to Pay Fees

If you fail to pay your fees or make arrangements satisfactorily to us, you will not be allowed to register, you will have to pay a surcharge (if you accessed the Deferred Payment Plan), and you will be barred from sitting examinations.

## Fee Refund Policy

Refund of fees will be made as outlined in the table below upon official withdrawal of a student from a programme of study at BAMSI, or the dropping of courses in the non-subsidized programmes, or under other applicable circumstances. To be official, withdrawal or dropping of courses must be in writing and submitted to the Registrar. The date on which the withdrawal request is received by the Registrar will be used for computing any refund. 'Days of classes' are days on which classes are scheduled. There will be no refunds of registration service charges and other fees expressly stated as being non-refundable. If you are expelled, suspended or have your residential privilege cancelled, you will not be entitled to any refund of fees.

**Table 1:** Refund of Fees. Please note that these do not apply to students enrolled in short courses or certain certificate courses



		REFUND		
SEMESTER	90 %	75 %	50 %	0 %
FALL or SPRING	Before classes begin	During the 1st week of classes	During the 2nd week of classes	After the 2nd week of classes
SUMMER	Before classes begin	1st & 2nd day of classes	3rd & 4th day of classes	After 4th day of classes

## International Students/ Students permits

BAMSI has a open policy and we encourage international students to apply. All international students however must be in possession of a valid student permit in order to register for classes. International students are required to register as full time students that is enroll in twelve (12) or more credits. It is the students' responsibility to ensure that a valid permit is kept on file at all times.

## Required Documentation

All documents submitted to the Bahamas Agriculture and Maritime Institute must be verifiable copies of the originals. Applicants awaiting exam results can be provisionally admitted to a BAMSI degree programme based on a review of unofficial transcripts and/or fulfilment of programme specific admission requirements. However, full admission is contingent on receipt of final, official documents and fulfilment of programme-specific admission.

## Requirements

Reporting false information, or omitting required information, will invalidate an application. This could result in a deferral of the offer, rejection of the application, or dismissal of the applicant from the institute if already enrolled.

By submitting the application, the applicant grants permission to BAMSI to make any necessary inquiries to any former institution, government agency, employer, person, firm,

corporation, its officers, employees and agents, or any other person or entity to verify such information.

Official transcripts must show all courses completed, grades posted, and graduation dates (if applicable). The transcript should be submitted in a sealed envelope in order to be considered official. Electronic transcripts will only be accepted as official if the are emailed directly from the Registrar's office of the institution and is accompanied by a secured password protected system. Photocopies and facsimiles will not be accepted as official transcripts.

Applicants who attended institutions in non-English-speaking countries should submit certified translations of their documentation along with the originals.

Information on the requirements for admittance into specific courses or programmes is available in the programme descriptions further on in this Catalog.

## Fees for Residential Students

Fees for residential students include accommodation and meals. There are several options available for student.

## Security Deposit Fee

Each student is required to pay a security deposit fee to cover the cost of damage to BAMSI property, equipment, appliances, furniture and fixtures, etc. caused by students' negligence or deliberate acts. Students may be held responsible as individuals or as groups (where individuals are not clearly identifiable). This fee is determined by the Administration and is payable at registration as part of your fees. Students may apply for a refund of the fee one (1) month after they have completed their programme of study. If the Security Deposit Fee is depleted before a student completes his/her programme of study, it must be replenished to the prescribed level.

Any outstanding liability and/or administrative fee to the Institute will be deducted before any refunds are made.

## Tuition & Fees

The registration process includes fee payment, which is to be made in full by the date marked on the Academic Calendar. Payments can be made at our Nassau Office, or in Andros at the Institute. Students can also make payments online through our website

([www.bamsibahamas.edu.bs](http://www.bamsibahamas.edu.bs)). Please contact the Accounts Department for more details on other payment options including BAMSI's Deferred Payment Plan (activating this plan will incur a non-refundable service charge as well as surcharges for failure to meet payment deadlines). Please note that fees are normally payable on a per semester basis (i.e. 50% of the annual fee is payable in full each semester). If you are sponsored you must submit documentary proof of such sponsorship at Registration, to enable you to complete the process.

## Other Fees and Surcharges

Additional fees and/or surcharges are applicable to various activities and circumstances; students will also be charged for replacing/repairing BAMSI property they lose and/or damage. Please note that some of these surcharges are avoidable and will apply only if you fail to do something that you are required to do, or do something that you should not do.

## Academic Regulations & Policies

### Academic Eligibility/ Standing

Your academic status is good if you have obtained a cumulative GPA of 2.0 or above. You are required to maintain a minimum, cumulative, overall GPA of 2.0 to stay in school or GPA of 2.0 in

order to maintain your tertiary grant. When your GPA drops below 2.0, you have essentially placed a huge speed bump on your own path to graduation. If you get into this situation, remember we are here to help you!! Those who fail to meet these criteria are placed in one of three other categories, depending on the current semester grades and their status at the end of the previous semester.

### Academic Probation

Students who fail to maintain the required GPA of 2.0 are placed on Academic Probation for one semester. During academic probation, you will be allowed to enroll for classes but not a full load i.e. you will take less than 12 credits. Academic Probation may cause you to lose your tertiary grant as well as affect your period of candidacy.

### Academic Suspension

If your cumulative GPA remains below a 2.0 after a semester of Academic Probation, you are placed on Academic Suspension. During this period you are prohibited from enrolling in courses at BAMSI for one semester. Courses taken at another institution while on suspension can not be transferred towards your degree.

We encourage students on suspension to engaged in meaningful activity: classes, work, or volunteer activities. We also encourage students to stay connected with their Advisor and the College Counsellor during this period to establish a successful academic plan. Upon their return student must write a detailed letter requesting permission to return and include their plan for academic success. Prior to returning financial obligations must also be satisfied .

If you are placed on Academic Suspension a hold will be placed on your account and your advisor will be notified.

## Academic Expulsion

Students who fail to achieve the minimum cumulative grade point average of 2.0 the semester immediately following suspension would be expelled from BAMSI. Students expelled from an Associate of Science degree can return in one of the Associate of Applied Science degrees programmes or certificate programmes but must receive written approval from the Academic Dean and Executive Director. Students expelled from the Associate of Applied Science degree are not eligible to enroll in the Associate of Science degree but have the option of enrolling in one of the certificate programmes but must also receive written approval from the Academic Dean and Executive Director.

## Academic Holds

A hold may be placed on a student's account for academic as well as non-academic reasons. The reason for the hold will be noted in POPULI. It is the student's responsibility to ensure that they meet all requirements to have the hold removed and meet with the department placing the hold on their accounts.

Reasons for a HOLD on an account include, but are not limited to outstanding financial fees or honor code violations.

## Auditing a Course

1. If a student wishes to enrol in a course outside of their degree they have the option of doing so by auditing the course. In order to be allowed to audit a course the student must apply using the audit form and be granted approval by the instructor teaching the course.
2. Students opting to audit a course are not required to fully participate in the course, that is submit assignments for grading or taking written examinations.

3. The Registrar's Office will automatically assign an "AU" grade to course(s) that have been audited. "AU" grades do not affect a student's cumulative grade point average.
4. Students who opt to audit a course cannot change their option once the class has begun.
5. Normal fees apply for audited courses.

## Change of Programme

A student has the right to make a request to change their programme at any point using the change of programme form. All forms must be signed and approved by the Academic Dean and submitted to the Registrar's Office for processing. A request to change a programme is not automatic students must meet the academic requirements for the programme in which they choose to enter. Changing a programme may result in lost of credits and/or a change in the students graduation date therefore it is highly recommended that students consult with their advisor before making a decision to change their major. Students' are not allowed to change their programme more than twice during the two year study period. There is a fee associated with changing a programme.

## Challenge Exam

Students may test out of a course by taking a formal examination for credit, called a Challenge Examination. Challenge exams will not be granted for courses that students have enrolled in and failed. Students taking a Challenge Exam must be admitted to the Institute and complete the challenge examination form. Students do not need to be enrolled in a course in order to take the Challenge Exam. Challenge exams are set during the final day of the final examination period. The Challenge Exam may be a written, oral, performance-based or practical test, interview, or any combination of the above. A fee of \$75.00 per examination is charged.



## Failures

Students are allowed to retake a course for which they have failed two (2) times. On the third attempt the student must receive permission from the Academic Dean.

## Field Study

Field Study courses are work experiences approved by BAMSI and are selected to augment traditional classroom activities. You are evaluated on the knowledge and skills acquired as a result of the experience. Emphasis is placed on the academic and practical value of the work

**Award of Diplomas or Degrees:** To be eligible for award of diplomas/degrees, a student must satisfy all requirements (including matriculation) for the programme pursued, submit a complete graduation application form, in addition to being approved by the Administration. Students must also have a minimum cumulative GPA of 2.00, with a minimum grade of C in each course and have paid all outstanding balances to the Institute.

## Full-Time Status

You are considered full-time when you are enrolled in a minimum of 12 credit hours in the fall/spring semesters and 6 credit hours in each summer semester.

## Grade Point Average (GPA)

Grade points are calculated by multiplying the regular term hour value of the course by the point value of the grade earned. An "A" in a three-hour course earns 12 grade points, a "B" earns 9 points, a "C" earns 6 points, a "D" earns 3 points, an "F" earns 0 points. The grade point average (GPA) is calculated by dividing the total points earned by the semester hours completed with grades of "A", "B", "C", "D", or "F". For repeated courses, the most recent grade is used in the cumulative GPA; however, all grades earned in a course will be entered on your transcript and will remain there permanently. The following grades

are not used to calculate your GPA: I (Incomplete) P/F (Pass/Fail Courses) W (Withdrawn). A college level GPA is also displayed on the student record which reflects only college level coursework and excludes developmental or preparatory coursework.

# Grade Points Calculation Reference

Example: Fall 2017

- AGRI 1301 – B grade    3 points X 3 hours = 9 points
- BIOL 1301 – A grade    4 points X 3 hours = 12 points
- MATH 1314 – C grade    2 points X 3 hours = 6 points
- COMM 1300 – A grade    4 points X 3 hours = 12 points

Total hours: **12**      Total points: **39**

GPA = 39 points/12 hours (39 divides by 12) = 3.25  
GPA

## GRADING SCALE

A (90-100) = 4.00  
A- (85-89) = 3.75  
B+ (80-84) = 3.50  
B (75-79) = 3.00  
B- (70-74) = 2.75  
C+ (65-69) = 2.50  
C (60-64) = 2.00  
C- (55-59) = 1.75  
D (50-54) = 1.00  
F (0-49) = 0.00

INCOMPLETE = I

PASS/FAIL – P/F

TRANSFER = T

EXEMPTION – E

AUDIT – AU

WITHDRAWAL WITHOUT PENALTY = W

FAILURE FOR NON ATTENDANCE – FN

WITHDRAWN FAILING – WF (*calculates as an "F" in the GPA*)

## Graduation

All students should apply for graduation no later than the last semester of their final year.

### STUDENT CONTRACT/DEGREE REQUIREMENTS:

A student contract is a list of courses that are

required for a student to earn a degree in their major. Most majors have different options or concentrations that you can choose to complete your degree based on your career goals and/or interests.

**GRADUATION AND COMMENCEMENT:** Students are eligible to graduate upon successful completion of all courses listed for their curricula. You have to apply for graduation no later than the last semester of your final year. Please see the Registrar's Office for the necessary forms and payments to complete.

The following conditions must be met for a student to be considered a certificate/diploma/degree candidate and qualify for graduation:

- Submit a completed graduation application form to the Registrar's office by the established deadline.
- Achieve a minimum cumulative grade point average of 2.0 or above
- Achieve a minimum cumulative GPA of 2.0 for all courses attempted in their major.
- Achieve a "C" or above in their major courses
- All specific course requirements for the programme in which the student is enrolled must be completed in either the Fall or Spring semester.
- If a student has any courses and/or internship for the programme in which he/she is enrolled outstanding, that student is not eligible and cannot apply for graduation.
- A student must receive signed final academic clearance from their advisor for graduation.
- A student must satisfy all financial obligations to the Institute in order to participate in the graduation ceremony and receive their certificate/diploma/degree.
- All grades for required courses must be submitted. No student will be issued a certificate/diploma/degree while a grade for any course on the academic record that remains outstanding.

**GRADUATION INFORMATION:** The Bahamas Agriculture and Marine Science Institute's Annual Graduation Ceremony is normally held during the Summer semester of May-July. Students are required to apply/register for graduation, by completing or submitting the prescribed form to the office of the Registrar, together with proof of payment of the required fee(s). The Registrar will advise the graduands in a timely manner of the procedures to be followed for those who are eligible to attend and be presented. Persons who do not apply/register will not be allowed to participate in the Graduation Ceremony. Students may be banned from participation in the Graduation exercise for disciplinary reasons. Persons who are eligible may collect their diplomas or degrees after the official ceremony when instructed. Students who have met the academic and social requirements for participation in the Graduation Ceremony, but have not returned all BAMS I property on loan to them, or have not paid all fees and expenses incurred by them, or charges levied against them, will not be allowed to participate in the Graduation Ceremony. Transcripts, Degrees and Certificates will not be issued until all business with the Institute is settled.

**AWARD OF DIPLOMAS OR DEGREES:** To be eligible for award of diplomas/degrees, a student must satisfy all requirements (including matriculation) for the programme pursued, submit a complete graduation application form, in addition to being approved by the Administration. Students must also have a minimum cumulative GPA of 2.00, with a minimum grade of C in each course and have paid all outstanding balances to the Institute.

## Incompletes

An Incomplete grade can be assigned for a student who is unable to take the final examination and/or coursework due to legitimate circumstances such as personal illness, death in the family, etc. The student must request an incomplete grade by completing the

incomplete grade form and receiving the required approval. A medical certificate must accompany your request in the case of illness.

An incomplete grade automatically turns into a failing "F" if the student does not complete the outstanding course requirements/final examination by the end of the next semester. Students receiving an "I" grade are not required to register for the course in the subsequent semester. The semester GPA and cumulative GPA's are recalculate once the "I" grade has been replaced.

## Independent Study

The independent study option is only available to graduating students if the course being requested is not on the schedule in the current academic semester in which the student has made an application for graduation. In order to be considered as a candidate for independent study the student must have a minimum of a 2.5 cumulative grade point average and must not have failed the course for which the independent study is being requested. Students are not allowed to take more than two (2) courses and/or six credits as independent study.

Students must make the request for independent study using the independent study form during the advisement period. Independent Study will be approved by the Dean of Academic Affairs but only on the recommendation of the lecturer responsible for the course.

## Internship

All students pursuing an Associate of Applied Science degree (A.A.S.) or an Associate of Science degree (A.S.) will complete an internship or work-based learning experience during the Summer Session. To be eligible to participate in the Internship Programme, students must have completed 15 credits, six of which must be in their majors and maintain a 2.0 or higher GPA. All students regardless of their degree programme



are encouraged to seek an internship experience that will enhance their learning and marketability with future employers.

Students must submit an Internship Request Form by the spring semester for approval. It is the responsibility of the student to have all relevant paperwork signed off on by the Internship Coordinator prior to the start of the internship.

## Make Up Examinations

A student may request a make up examination for a final examination if he or she is hospitalized on the day of the examination and can produce medical certification to confirm their illness; or suffered a death in his or her immediate family (that is, parent, legal guardian, spouse, children or siblings).

Make-up examination request form must be submitted to the Academic Dean/Executive Director for approval. The approved form with proof of payment should be submitted to the Registrar's Office. All requests must be made within twenty four (24) hours of the scheduled final examination. Make up examinations must be sat within the next regularly scheduled examination period.

## Period of Candidacy

From the date of initial enrolment, the time limit for completing a programme of study is twice the normal duration of the programme. For example

### **ASSOCIATE OF SCIENCE/ASSOCIATE OF APPLIED SCIENCE**

Full-time 4 years

Part-time 6 years

### **COLLEGE PREPARATORY**

Full-time 2 years

Part-time 4 years

Students, who do not complete their programme within the permissible time frame, will be dismissed from the Institute as their studentship shall be deemed to have expired. In the event of a cancellation, all grades accumulated in the programme will be cancelled and all records will be closed.

## Repeated Courses

Students have the option to repeat a **course** for an improved grade.

If you have earned a grade of "C-" or less in your major courses, you **MUST** retake the course for an improved letter grade in order to meet the academic requirements for graduation. While your previous semester cumulative grade will not change the most recent grade will be factored into your cumulative GPA. Credits for the repeated class will not be included in the credit hours required for graduation.

## Resit

If a student receives a "D" or "C-" in the **final examination** which results in them receiving an overall failing grade for a course, they are eligible to resit the **final examination**. Students resitting a final examination can not receive a grade higher than a "C". The course grade is recalculated and the semester and cumulative grade point averages will be recalculated as a result if a resit. Request for a resit must be made via the Resit Examination Form and applicable fees must be paid.

## Transfer Credit

BAMSI accepts courses from recognized institutions for transfer of credit for courses with a "C" grade or higher. Transfer credits should be applied for at the beginning of a student's tenure at the institute using the Credit Transfer Request form. ALL requests for transfer must be accompanied by an official transcript and course outline.

Students may transfer a maximum of thirty credits (30). All transfer credits must be approved by the Division Chairperson and the Office of Academic Affairs. Credits earned 10 years or more prior to admission are not transferable. It is important to note that credits transfer but the grades do not. The course will appear on the student's transcript with the credit.

## Undergraduate Research (Directed Studies)

This course is an individual research project carried out by students under faculty supervision. You define the research topic, propose a methodology, carry out the research, and write a report. This course is usually taken in the second year of study. Students must register for the individual research project as they would any other course.

## Withdrawal

**COURSE/INSTITUTE WITHDRAWAL:** Withdrawal from a course/institute may occur for academic, disciplinary, health, personal, or financial reasons and may be voluntary or involuntary. Students withdrawing from a course/institute before the end of the semester normally receive the grade notation "W" (withdrawal) on their permanent record for all in-progress courses. Students withdrawing from a course within the final week of the semester will receive a "WF". "W" grades do not affect a student's cumulative GPA; however, a "WF" grade calculates as an "F" and will affect the cumulative GPA.

**RE-ADMISSION FOLLOWING WITHDRAWAL:** A student who has withdrawn from BAMSI for a period of more than one academic year, whether voluntary or involuntary, is required to apply for readmission.

## Work-Study Positions

BAMSI work-study positions may be available for students determined to be eligible. Students must complete all of the necessary

documentation and provide the information needed to support the same. Failure to provide the necessary and correct/factual information will result in ineligibility. Request for the work-study should be made through Student Affairs.



## Student Resources and Policies

### Academic Advisors

Each new student is assigned to a faculty member as an academic advisor. This initial contact is made during the Advisement and Registration period. The advisor guides the student in meeting academic requirements and choosing classes. When the advisor is not available, the student may contact the Registrar's office for assistance. Changes in advisors will only be made due to faculty shifts in duties or reassignment or where a student changes his or her major.

### Academic Calendar

BAMSI publishes an academic calendar every two (2) years. The calendar will be posted on the school's website. Students are encouraged to adhere to the dates as outlined. Any changes to the published calendar will be sent out via POPULI and reflected on the school's website.

## Academic Misconduct

Academic misconduct is defined as a violation of the BAMSI's standards of academic integrity whether these violations are intentional or unintentional. Academic misconduct consists of cheating on an exam, plagiarism on an academic assignment, or unauthorized collaborative work.

Such actions will result in a zero (0) grade for the work in question. The student(s) will have to complete an academic misconduct form that will be placed on their records. (S)he will also be asked to enroll in counseling for such an offence to assist the student with the way forward to avoid a repeat performance. Other stipulations may apply. However, should the student commit another academic misconduct, that student will be expelled from the Institute. We take such misconducts very seriously and have a zero tolerance approach. Evidence of academic misconduct may include, but is not limited to, the following:

**CHEATING:** Copying from another student's examination, quiz, laboratory work, or homework assignment is cheating and will NOT be acceptable. The use of pre-prepared notes or other resources, in any form, during an examination, unless such use is expressly authorized by the instructor, also constitutes cheating. If a student knowingly allows someone else to copy from his or her homework, laboratory work, quiz, or examination, he or she is in violation. Revising a work after its final evaluation and representing the revised version as being the original work is cheating. Forging or otherwise unauthorized changing of an earned grade also is academically dishonest. Any form of interfering with another student's academic work is a form of cheating. When one student arranges for another student to take an examination using the first student's identification that also constitutes an act of

cheating. In this last instance, both parties are liable. Unauthorized acquisition of an examination prior to the exam date is cheating.

**PLAGIARISM:** According to Webster's Dictionary, plagiarism is the act of stealing and passing off as one's own ideas or words of another. The lecturer will pay attention not to whether the student meant to plagiarize, but whether plagiarism did occur. Additionally, submitting the same paper twice or fulfilling the requirements of two subjects with one paper is academically dishonest. Students may use the ideas and words from other sources, but must document their use with citations, usually in the form of footnotes, endnotes, or text notes. By citing sources, students indicate the extent of their research, thereby improving the paper.

**MANUFACTURE OF DATA:** It is academically dishonest to manufacture or deliberately alter data submitted in connection with laboratory reports, term papers, or written material. Not only is this practice dishonest, it undermines the entire academic and scholarly process.

**UNAUTHORIZED COLLABORATION:** Collaboration occurs when a student works with other students to do lab work, review books, or develop a presentation or report. Students must receive very clear permission from the instructor to participate in collaborations. Unless otherwise authorized, lab work done in pairs or groups is collaborative only up to and including the data collection part. All data must be analyzed and written up individually. All members of a pair or group must be present when the data is collected. A student not present during lab, who copies someone else's lab data and then writes a lab report on the basis of the copied data, is cheating, as is the student who makes the data available outside the lab to copy. Unauthorized collaboration is an example of an academically dishonest act. What one lecturer may view as collaboration may be seen as cheating by another. The important thing to note is that if the

limits of collaboration are not clear, it is the student's responsibility to ask the lecturer for very clear and specific direction.

Sources that must be acknowledged include, but are not limited to, lab manuals, books, articles in books, journal articles, and web pages, along with graphs, charts, tables, data sets, photos, images, etc., in any of the sources just mentioned. Proper acknowledgment must indicate both the source and how it served as a source for any specific portions of the student's work. Students should feel free to consult with instructors whenever there is doubt as to proper documentation.

A faculty member who has good evidence to suspect a student or students of academic misconduct will, at the faculty member's discretion, consult administration about the case. The faculty member will then meet with the student (or students) to present evidence. At the faculty member's discretion, an administrator may be present. A report with the supporting evidence is required. The findings may result in severe disciplinary action such as expulsion.

## Academic Responsibility

Members of the BAMSI community have an obligation to respect the dignity of others, to acknowledge their right to express differing opinions, and to foster and defend intellectual honesty, and freedom of inquiry and instruction on and off campus. Those who seek to call attention to grievances must not do so in ways that significantly impede the functions of the Institute. It is a violation for anyone to prevent the conduct of Institute business, including lectures, meetings, events (such as tours or job interviews), ceremonies, or other necessary business and community functions. Students who disrupt the functions of the Institute may be subject to the judicial process.

Evaluation of students must be based on academic performance professionally judged and not on matters unrelated to that

performance, such as personality, race, religion, degree of political involvement, or personal beliefs. If a student has a grievance against a faculty member that cannot be resolved directly with the faculty member who is involved, then the student should take her or his concerns to the administrative office.

## Attendance

You are expected to attend all lecture classes and labs regularly. You are also responsible for materials covered during your absences. There is a strong correlation between academic performance and class attendance. Lecturers may be willing to consult with you for makeup assignments, but it is your responsibility to contact the Lecturer. Class attendance is monitored daily. Although it is your responsibility to drop a course for nonattendance, the Lecturer has the authority to drop you for excessive absences. You may be dropped from a course after accumulating absences in excess of 12.5 percent of the total hours of instruction (lecture and lab). For example:

- For a 3 credit-hour lecture class meeting 3 hours per week (ex. 45 hours of instruction), you can be dropped after 6 hours of absence.
- For a 4 credit-hour lecture/lab course meeting 6 hours per week (ex. 90 hours of instruction), you can be dropped after 11 hours of absence. Administrative drops are at the discretion of the Lecturer. Failure to withdraw officially can result in a grade of "F" in the course. You will not be eligible for refund. Punctuality or being on time mirrors professionalism. All students are expected to be punctual at all times for classes or other BAMSI functions. A lecturer can mark you as absent if you are more than 15 minutes late, leave class early and fail to return, or sleep in class.

## Class Time

Fifty (50) minutes is the recognized length for a classroom "hour". For instance a class scheduled for 8–9 am will end at 8:50 am, and so forth.

## Cancellation of Programme or Course

The delivery of any programme is dependent on sufficient number of students registering for the said programme. The Institute reserves the right to cancel or defer any programme, course or specialization which is undersubscribed or nonviable or for which adequate resources are unavailable. If a course is cancelled the student will be dropped from the course by the Registrar's office. Students are encouraged to meet with their advisor to select another suitable course.

## Co-Requisite

Co-requisite refers to a course which a student enrolls in while taking another course. Co-requisite courses approved by the academic board and outlined on the student's contract. Students must pay attention and ensure that they are advised and enrolled in these courses.

## Elective Courses

Electives refer to optional courses freely chosen by students. Students may select an elective from another program area as long as they meet the required pre requisite requirements.

## Final Examinations

A final examination schedule is included in the schedule of classes and is posted in Populi. While not all credit classes may include comprehensive final exams during this time, all classes will meet for the scheduled time for whatever activities the lecturer feels are appropriate to conclude the semester.

Online course will follow the same final examination schedule as face to face courses as

the examinations will only be available to students during that period. Depending on the type of examination, the invigilator may require that students use ZOOM. Students are encouraged to practice academic honesty and integrity when sitting online examinations.

Students are responsible for knowing when their courses' final meetings will be and plan their time accordingly.

## Grade Appeal

Students have the right to appeal their final grade by completing a Grade Appeal Form and pay the applicable fees. This fee is non refundable if the student loses their appeal Grade Appeal Forms should be submitted to the Academic Dean's Office. Student have up to five (5) days of the electronic posting of the grade to make an appeal. Appeals that are filed after five (5) days of the electronic posting of the grade will not be considered.

## Official Class Lists of Registered Students

Class Lists of the names of students who are duly registered will be prepared by the Registrar. If you are not registered, your name will not appear on the lists and you will not be admitted to classes or other ancillary units of the Institute.

## Populi

Populi is BAMSI's student on-line service that houses an extensive database on each student. Each student's account is set up upon registration. It is very user friendly, secure and can be accessed from anywhere in the world at any time.

## Prerequisite Course

This refers to a course, which students must successfully complete before they can register for another course at a higher or upper level, e.g. you must pass Math 0101 before you can register

for Math 1201. Prerequisites are indicated on the student's contract and course outlines. Generally, lower level courses are pre-requisites for upper level courses in a programme of study.

## Registration

Once a student would have been advised, he/she would be half way through the registration process. Each student accepted to pursue a programme of study at BAMSI and those who have met eligibility criteria for promotion are required to register at the beginning of each semester on the dates specified, by completing and submitting a registration form and payment of subsequent fees. Registration allows you the full privileges of student membership, such as attending classes and sitting examinations at the Institute. If you are absent, without acceptable reasons, from examinations in courses for which you are registered, you will be deemed to have failed such course(s).

**LATE REGISTRATION:** Penalties, including payment of a late registration fee, will apply to students who fail to register within three (3) days after the scheduled registration day. Only in very exceptional circumstances, and with special permission from the President and/or Executive Director, will students be allowed to register after the registration period for a given semester has closed. BAMSI reserves the right not to register an individual after the close of registration, although he/she may have been attending classes.

**CHANGE OF REGISTRATION: ADDING OR DROPPING COURSES:** If you wish to make subsequent changes to your course registration, you may do so during the add/drop period (as per the date indicated in the academic calendar) by completing and submitting the appropriate form to the Registrar. Generally, the period for adding courses is two weeks from the official start of a given semester. Courses may be dropped by the 9th week during the semester,

without academic penalty. Where applicable, refunds of fees will be pro-rated when courses are dropped.

## Schedules of Classes

The Institute publishes three credit schedules of classes—fall, spring, and summer—each year. The schedule is available in Populi prior to the start of registration. Students should refer to the schedule of courses when selecting courses each semester.

## Student Responsibility

Students are responsible for knowing and adhering to the policies, deadlines, and procedures of the Institute. Most potential advisement and registration problems can be averted by careful reading the various documents and publications. Students may receive credit only for those courses for which they are properly registered and assume academic and financial responsibility, unless they officially cancel registration according to the established policies and deadlines.

## Transcript

A transcript is an official record of a student's academic performance. Students' Academic Records, including their files, are the property of Institute. Students' transcripts and other records are considered confidential and privileged information and are not normally released to third parties by the Registrar without the expressed, prior, written permission of the student. Transcripts are available (for students who have met all their financial obligations to BAMSI) for posting to other academic institutions, employers or authorized entities upon the payment of the prescribed fee by students. Official Transcripts are not issued to students. Unofficial transcripts can be viewed in your Populi account. Students can apply for official transcripts using their Populi account.



## Unofficial Grades

All grades are processed in the Registrar's Office. Unofficial grades can be viewed on your Populi account. Any fees owing to BAMSI must be paid in full before reports are issued to students. All concerns regarding incorrect grades should be directed first to the lecturer or by following the grade appeal policy.

## Staff

### Administration

Executive Director

**Dr. Raveenia Roberts-Hanna**

Director of Academic Affairs

Director of Marine Sciences

**Dr. Vallierre Deleveaux**

Student Affairs Director

**Mr Glenn Major**

Registrar

**Ms Sherese Cunningham**

Senior Admissions Officer

**Ms Jarenda Rahming**

Admissions Clerk

**Appalonia Greene**

Administrative Assistant

**Lovan Christie**

Office Administrator

Front Office Assistant

**Johnique Pickstock-Neilly**

## Faculty List

**Stanley, Ashton Dr**

Agriculture Department

**Ponda, Said**

Agriculture Department

**Deveaux, Deandra**

Agriculture Department

**Turnquest, Dianne**

Business Department

**McPhee, Charis**

Environmental Science

**Brown, Dianne**

Natural Science

**Deleveaux, Vallierre Dr**

Marine Science Department

**Morley, Gimel**

Marine Science Department

**Adderley, Eboni**

Researcher

### Adjunct Faculty

**Kemp, Dwayne**

IT Department

**Johnson, Anthony**

Business Department

# Degrees & Certificates



**Feeding Minds, Growing Greatness**

# Degrees & Certificates Agribusiness

## Agri-Business

A degree in Agribusiness prepares students for careers in the nation's growing agribusiness sector which provides products and services for the production, processing, and distribution of food. The agribusiness program combines Core Business courses with coursework emphasizing the needs of agribusiness firms. Students integrate business management principles with technical knowledge to develop practical decision-making skills. The program allows graduates to find employment in non-agricultural firms as well as with traditional agribusiness companies.

**Type:** Associate of Science

## Programme Outline

### Year I: Semester I

Item #	Title	Credits
MATH 1008	Business Mathematics	3
BIOL 1001	College Biology	4
CHEM 1001	Fundamentals of Chemistry	4
AGRI 1103	Farm Skills I	2
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1

### Year I: Semester II

Item #	Title	Credits
AGRI 1202	Farm Skills II	2
COMP 1002	Computer Essentials	2
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
COMM 1001	College English	3
EDUC 1002	Physical Development	1
ACCT 1201	Principles of Accounting	3
AGRI 1201	Principles of Crop and Animal Sciences	4

### Year 1 Semester III

Item #	Title	Credits
AGBU 1301	Agribusiness Internship	3

### Year II: Semester I

Item #	Title	Credits
MRKT 2101	Marketing	3
AGBU 2201	Principles of Agribusiness Management	3
EDUC 2001	Introduction to Research Methods	2
AGRI 2102	Farm Skills III	2
MASC 1102	Introduction to Aquaculture	4

### Year II: Semester II

Item #	Title	Credits
AGRI 2208	Post-Harvest Management	3
COMM 2001	Extension and Communication	3
EDUC 2201	Directed Study	3
AGBU 2202	Agribusiness Operations Management	3
AGBU 2001	Agricultural Trade & Policy	3
	Agri-Business Elective (2 credits)	2
<b>Total credits:</b>		<b>68</b>

## Agriculture

## Agriculture

The agriculture programme seeks to revolutionize research, development and training in the quest for improved food security. The programme exposes learners to the production of crops and livestock for food, feed, fibre and fuel, thereby transitioning from the biological sciences to the applied areas. The programme provides technical training for hands-on operation of a number of farm enterprises.

**Type:** Associate of Science

## Programme Outline

## Year I: Semester I

Item #	Title	Credits
MATH 1001	College Mathematics	3
BIOL 1001	College Biology	4
CHEM 1001	Fundamentals of Chemistry	4
AGRI 1103	Farm Skills I	2
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1

## Year I: Semester II

Item #	Title	Credits
AGRI 1202	Farm Skills II	2
COMP 1002	Computer Essentials	2
COMM 1001	College English	3
AGRI 1203	Soil and Water Management	3
AGRI 1201	Principles of Crop and Animal Sciences	4
EDUC 1002	Physical Development	1

## Year I: Semester III

Item #	Title	Credits
AGRI 1301	Agriculture Internship	3

## Year II: Semester I

Item #	Title	Credits
EDUC 2001	Introduction to Research Methods	2
AGRI 2102	Farm Skills III	2
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
AGRI 2201	Livestock Production and Management	3
AGRI 2205	Principles of Crop Production	3
	Agriculture Elective (3 credits)	3

## Year II: Semester II

Item #	Title	Credits
AGRI 2208	Post-Harvest Management	3
COMM 2001	Extension and Communication	3
AGBU 2201	Principles of Agribusiness Management	3
AGRI 2220	Plant Protection and Animal Health	4
EDUC 2201	Directed Study	3
	Agriculture Elective (2 credits)	2
<b>Total credits:</b>		<b>68</b>



## Certificate in Agriculture

This hybrid course consists of five (5) weeks theory on line and one (1) week practical on the BAMS farm. It is designed to provide students with a theoretical and practical educational background in the areas of agricultural science, crop and livestock production, aquaculture and farm administration.

**Type:** Certificate

## Certificate in Backyard Farming

This practical course is designed to introduce students to the concept of agricultural sustainability by growing fruits, vegetables and herbs in their own backyards. Areas of focus will



be on understanding your soil, composting, plant propagation, growing seasons, vegetable types and other commodities. The skills covered in the course will afford students the opportunity to establish their own backyard garden.

**Type:** Certificate

## Certificate in Landscape Gardening

This practical course allows student to engage and apply the theoretical principles through a continuous learning process. It also allows student the ability to design their own individual gardens. This course focuses on introducing students to the basic principles and techniques of horticulture such as how to establishing and maintain a plant nursery; construct simple irrigation systems; design, installation and maintaining landscape gardens.

**Type:** Certificate



## Agronomy

### Agronomy

Agronomy is the study of crops and all their components of production. This programme is designed to provide scientific and technological aspects of producing plants that serve our needs. It offers theoretical and practical knowledge needed for efficient and sustainable

crop and animal production through good agro-practices essential for maintaining and improving crop and animal life.

The programme also emphasizes on adopting sustainable agro-ecosystems to reduce possible environmental pollution and mitigate the effects of climate change.

Focus is also on reducing the country's food importation costs by concentrating on helping local farmers and the agricultural stakeholders increase their production through the enhancement of agricultural research and education.

**Type:** Associate of Applied Science

### Year I: Semester I

Item #	Title	Credits
MATH 1000	Technical Mathematics	3
SCIN 1001	Integrated Science	4
COMP 1002	Computer Essentials	2
COMM 1001	College English	3
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1
AGRI 1103	Farm Skills I	2

### Year I: Semester II

Item #	Title	Credits
AGRI 1200	Introduction to Soil Science	3
AGRI 1204	Crop Production I	3
AGRI 1210	Turfgrass Management	2
AGRI 1206	Introduction to Organic Agriculture	2
EDUC 1002	Physical Development	1
BUSS 1001	Introduction to Business	3
AGRI 1202	Farm Skills II	2

### Year I Semester III

Item #	Title	Credits
AGRI 1301	Agriculture Internship	3



## Year II: Semester I

Item #	Title	Credits
AGRI 2112	Protected Agriculture	2
AGRI 2104	Crop Production II	3
AGRI 2110	Integrated Pest Management	3
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
AGRI 2106	Sociology for Agriculture	2
AGRI 2102	Farm Skills III	2

## Year II: Semester II

Item #	Title	Credits
AGRI 2218	Crop Nutrition and Soil Management	3
COMM 2001	Extension and Communication	3
AGRI 2223	Horticulture	3
AGRI 2211	Nursery Management	3
AGRI 2206	Occupational Health and Safety	3
	Agriculture Elective (3 credits)	3
<b>Total credits:</b>		<b>69</b>



## Animal Science

### Animal Science

This programme offers theoretical and practical knowledge of animal production. It focuses on a variety of animal husbandry related areas including livestock management, pasture blocks supervision, and agricultural business services.

Creating competent animal specialists who can provide services in the areas of animal nutrition, basic animal health inspection, animal selection and breeding. Also, the programme aims at increasing the number of local livestock farmers in order to reduce the animal protein-based importation bill by focusing on livestock agro-entrepreneurship.

**Type:** Associate of Applied Science

## Year I: Semester I

Item #	Title	Credits
MATH 1000	Technical Mathematics	3
SCIN 1001	Integrated Science	4
COMP 1002	Computer Essentials	2
COMM 1001	College English	3
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1
AGRI 1103	Farm Skills I	2

## Year I: Semester II

Item #	Title	Credits
AGRI 1200	Introduction to Soil Science	3
AGRI 1208	Livestock Production I	3
AGRI 2110	Apiculture	3
AGRI 1206	Introduction to Organic Agriculture	2
EDUC 1002	Physical Development	1
BUSS 1001	Introduction to Business	3
AGRI 1202	Farm Skills II	2

## Year I: Semester III

Item #	Title	Credits
AGRI 1301	Agriculture Internship	3

## Year II: Semester I

Item #	Title	Credits
AGRI 2114	Livestock Feeds and Feeding	3
AGRI 2108	Livestock Production II	3
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
AGRI 2106	Sociology for Agriculture	2
AGRI 2102	Farm Skills III	2
	Agriculture Elective (3 credits)	3

## Year II: Semester II

Item #	Title	Credits
AGRI 2218	Crop Nutrition and Soil Management	3
COMM 2001	Extension and Communication	3
AGRI 2202	Introduction to Crop and Livestock Health and Food Safety	3
AGRI 2224	Introduction to Farm Equipment and Buildings	2
AGRI 2206	Occupational Health and Safety	3
<b>Total credits:</b>		<b>67</b>



## Aquaculture

### Aquaculture

Aquaculture operations for food production encompass a wide variety of species and culture techniques. In addition to food production, aquaculture activities include production of fish for conservation, recreational purposes, and production for ornamental species. The global demand for aquaculture products is growing, along with demands for stewardship, sustainability and food safety and security. This programme combines considerable knowledge of fish health and production with significant hands-on operational experience and business

training so that graduates can understand the diverse challenges facing aquaculture enterprises.

**Type:** Associate of Science

### Year I: Semester I

Item #	Title	Credits
MATH 1001	College Mathematics	3
BIOL 1001	College Biology	4
CHEM 1001	Fundamentals of Chemistry	4
AGRI 1103	Farm Skills I	2
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1

### Year I: Semester II

Item #	Title	Credits
COMM 1001	College English	3
AGRI 1202	Farm Skills II	2
EDUC 1002	Physical Development	1
COMP 1002	Computer Essentials	2
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
MARN 1201	Introduction to Marine Ecology	3
MASC 1102	Introduction to Aquaculture	4

### Year I Semester III

Item #	Title	Credits
AQCL 1301	Aquaculture Internship	3

### Year II: Semester I

Item #	Title	Credits
MASC 2103	Marine Field Skills	2
AGBU 2201	Principles of Agribusiness Management	3
EDUC 2001	Introduction to Research Methods	2
AQCL 2101	Fish Nutrition and Health	4
MARN 2102	Tropical Ichthyology	3
	Aquaculture Elective	2

### Year II: Semester II

Item #	Title	Credits
AGRI 2208	Post-Harvest Management	3
BIOL 2001	Genetics	4
COMM 2001	Extension and Communication	3
AQCL 2201	Aquaponics	4
EDUC 2201	Directed Study	3
<b>Total credits:</b>		<b>70</b>



## Art and Environmental Science

### Art + Environment

The Associate of Science in Art and Environment prepares students to enter professional practice in the Arts and Sciences. This program integrates environmental studies and sciences, studio and applied arts. Students have an opportunity to learn about Art, Environment, and Sustainability through the unique landscape, culture and biodiversity offered in Andros, Bahamas. Through this lens graduates will be able make authentic and meaningful contributions to Arts and Sciences. Graduates are prepared for careers in Fine Arts, Education, Activism, Forestry, Land use, Environmental sustainability and Conservation.

**Type:** Associate of Science



## Year I: Semester I

Item #	Title	Credits
EDUC 1001	Student Success and Development	1
COMP 1002	Computer Essentials	2
AREV 1001	Drawing I	3
AREV 1007	2D Methods and Concepts	3
BIOL 1001	College Biology	4
AREV 1005	Methods and Theories of Art History	3
AGRI 1103	Farm Skills I	2

## Year I: Semester II

Item #	Title	Credits
MATH 1001	College Mathematics	3
ECOL 1201	Fundamentals of Ecology	4
AREV 1002	Drawing II	3
AREV 1009	3D Methods and Concepts	3
COMM 1001	College English	3
GEOG 1001	Geography	3

## Year I: Semester III

Item #	Title	Credits
AREV 1301	Art and Environment Internship	3

## Year II: Semester I

Item #	Title	Credits
AREV 2012	Survey of Bahamian and Caribbean Art	3
ENVR 2102	Introduction to Environmental Science	3
AREV 2001	Art and Ecology I	3
AREV 2004	Ceramic Sculpture	3
AREV 2009	Painting I	3

## Year II: Semester II

Item #	Title	Credits
AREV 2015	Thesis and Exhibition	3
AREV 2002	Art and Ecology II	3
EDUC 1002	Physical Development	1
AREV 2006	Documentary Photography	3
AREV 2010	Painting II	3
	Elective (3 credits)	3

**Total credits:**

**71**



## Environmental Science

Achieving sustainable development requires an appreciation of the value of natural resources and the environment, and the development of the knowledge base and skills required for effective management. A firm grounding in these skills, knowledge and attitudes is provided through a study of Environmental Science.

The Environmental Science Program is an interdisciplinary and multidisciplinary course of study that presents an overview of ecological issues (such as pollution, water resource management and greenhouse gases) from a scientific perspective. With a broad foundation across the natural sciences, the course examines the interrelated nature of environmental and social systems. That is, the study of how living systems, especially human beings interact with one another and impact the Earth. This program is designed to equip students with the skills and tools to successfully use the scientific method while studying and solving environmental problems.

**Type:** Associate of Science

## Year I: Semester I

Item #	Title	Credits
MATH 1001	College Mathematics	3
BIOL 1001	College Biology	4
CHEM 1001	Fundamentals of Chemistry	4
AGRI 1103	Farm Skills I	2
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1

## Year I: Semester II

Item #	Title	Credits
COMM 1001	College English	3
AGRI 1202	Farm Skills II	2
COMP 1002	Computer Essentials	2
ECOL 1201	Fundamentals of Ecology	4
GEOG 1001	Geography	3
EDUC 1002	Physical Development	1

## Year I Semester III

Item #	Title	Credits
ENVR 1301	Environmental Science Internship	3

## Year II: Semester I

Item #	Title	Credits
ENVR 2101	Environmental Science Techniques	4
ENVR 2102	Introduction to Environmental Science	3
EDUC 2001	Introduction to Research Methods	2
AGRI 1203	Soil and Water Management	3
AGRI 2102	Climate Change and the Environment	3
AGRI 2207	Agroforestry	3

## Year II: Semester II

Item #	Title	Credits
COMM 2001	Extension and Communication	3
EDUC 2201	Directed Study	3
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
MARN 2103	Marine Conservation and Management	3
	Environmental Science Elective	2
<b>Total credits:</b>		<b>66</b>

## Business

### Business Management

This program is designed primarily to expose students to a wide variety of skills in the area of business. Students will focus on key areas such as accounting, ethics, law, economics, human resource management, communication and leadership.

**Type:** Associate of Science

## Year I: Semester I

Item #	Title	Credits
MATH 1008	Business Mathematics	3
	Science Elective	4
AGRI 1103	Farm Skills I	2
COMM 1001	College English	3
BUSS 1001	Introduction to Business	3
EDUC 1001	Student Success and Development	1

## Year I: Semester II

Item #	Title	Credits
MRKT 2101	Marketing	3
COMP 1002	Computer Essentials	2
BUSS 2104	Introduction to Human Resource Management	3
COMM 1201	Business Writing	3
EDUC 1002	Physical Development	1
ACCT 1201	Principles of Accounting	3
PSYCH 1001	Introduction to Psychology	3

## Year I: Semester III

Item #	Title	Credits
BUSS 1301	Business Internship	3

## Year II: Semester I

Item #	Title	Credits
AGBU 2201	Principles of Agribusiness Management	3
LAWS 1201	Business Law	3
BUSS 2010	Business Ethics	3
MATH 2104	Introduction to Statistics and Data Analysis	3
	Elective (3 credits)	3

## Year II: Semester II

Item #	Title	Credits
BUSS 2100	Principles of Microeconomics	3
COMM 2001	Extension and Communication	3
BUSS 2204	Leadership Development	3
ACCT 2001	Managerial Accounting	3
	Elective (3 credits)	3
<b>Total credits:</b>		<b>67</b>

# General Agriculture

## General Agriculture

The diversity and complexity of agricultural careers require a combined understanding of many subdisciplines within the field. The General Agriculture programme is designed for students

who love to work outdoors to maintain crop and livestock. It offers a wide array of theoretical and practical classes in general principles of field crop production and animal husbandry. Environmental concerns, weather, soil fertility, varietal differences, cultural practices, pests management, plant and animal pathology are some of the areas of focus.

The programme aims at creating competent agriculturist who can work directly with crops or animals and implement different techniques for growing and harvesting food. Also increase the number of skilled agricultural officers in the country in order to facilitate transfer of agricultural knowledge and technology to farmers leading to an increase in local food production.

**Type:** Associate of Applied Science

## Year I: Semester I

Item #	Title	Credits
MATH 1000	Technical Mathematics	3
SCIN 1001	Integrated Science	4
COMP 1002	Computer Essentials	2
COMM 1001	College English	3
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1
AGRI 1103	Farm Skills I	2

## Year I: Semester II

Item #	Title	Credits
AGRI 1200	Introduction to Soil Science	3
AGRI 1204	Crop Production I	3
AGRI 1208	Livestock Production I	3
AGRI 1206	Introduction to Organic Agriculture	2
AGRI 2110	Apiculture	3
BUSS 1001	Introduction to Business	3
AGRI 1202	Farm Skills II	2

## Year I: Semester III

Item #	Title	Credits
AGRI 1301	Agriculture Internship	3



## Year II: Semester I

Item #	Title	Credits
AGRI 2112	Protected Agriculture	2
AGRI 2104	Crop Production II	3
AGRI 2108	Livestock Production II	3
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
AGRI 2106	Sociology for Agriculture	2
AGRI 2102	Farm Skills III	2

## Year II: Semester II

Item #	Title	Credits
AGRI 2218	Crop Nutrition and Soil Management	3
COMM 2001	Extension and Communication	3
EDUC 1002	Physical Development	1
AGRI 2211	Nursery Management	3
AGRI 2206	Occupational Health and Safety	3
	Elective (3 credits)	3
<b>Total credits:</b>		<b>70</b>



## Marine Science

### Marine Science

Marine science is the study of the marine environment and its interactions with the earth, the biosphere, and the atmosphere. It is an

interdisciplinary science requiring knowledge of physics, geology, mathematics, chemistry, and biology. Marine science students are provided with an understanding of marine processes and the management of ocean resources.

The Marine Science curriculum emphasizes development of oral and written communication skills and facility in accessing, reading, and understanding the current primary literature in marine sciences. Courses include hands-on, experiential learning in the laboratory or in the field. Students also are required to complete an experience-based internship education requirement.

**Type:** Associate of Science

## Year I: Semester I

Item #	Title	Credits
MATH 1001	College Mathematics	3
BIOL 1001	College Biology	4
CHEM 1001	Fundamentals of Chemistry	4
AGRI 1103	Farm Skills I	2
AGRI 1102	Introduction to Agriculture	2
EDUC 1001	Student Success and Development	1

## Year I: Semester II

Item #	Title	Credits
COMM 1001	College English	3
EDUC 1002	Physical Development	1
AGRI 1202	Farm Skills II	2
MASC 1102	Introduction to Aquaculture	4
AGBU 2101	Principles of Agriculture Economics, Finance & Marketing	3
MARN 1201	Introduction to Marine Ecology	3

## Year I Semester III

Item #	Title	Credits
MASC 1301	Marine Science Internship	3

## Year II: Semester I

Item #	Title	Credits
COMP 1002	Computer Essentials	2
MASC 2103	Marine Field Skills	2
MARN 2103	Marine Conservation and Management	3
EDUC 2001	Introduction to Research Methods	2
MARN 2101	Oceanography	3
MARN 2102	Tropical Ichthyology	3

## Year II: Semester II

Item #	Title	Credits
MARN 2201	Coral Reef Ecology	3
MARN 2106	Marine Invertebrate Zoology	3
COMM 2001	Extension and Communication	3
EDUC 2201	Directed Study	3
	Marine Science Elective	3
<b>Total credits:</b>		<b>65</b>

## Certificate in Flats Fishing

This program is designed to train participants to become freelance flats fishing guides or to prepare them to work within a fishing lodge. Participants will have both theoretical and practical application. For the more experienced guides their knowledge of the marine environment will be broadened and learn the fundamentals of business. The program has a strong science component where students gain an understanding of fish biology and behavior and marine environment and conservation. Students have the opportunity to exit the program with various certificates such as: Bahama Host Certificate, Captains License – B Class and Emergency First Responders Training Certificate. This course will meet the Ministry of Agriculture requirements to obtain a flat fishing guide business license. **This certification has been endorsed by the Ministry of Tourism.**

**Type:** Certificate

# Course Descriptions

## Agribusiness

### **AGBU 1301: Agribusiness Internship**

**Credits:** 3

**Prerequisites:**

1st Year Good Standing

### **AGBU 2001: Agricultural Trade & Policy**

This course will examine the country's national interests, its experiences and challenges to its food security goals. Furthermore, an analysis on how an agriculture policy is going to affect trade relations with bilateral and multilateral trading partners will also be undertaken.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

2nd Year Standing

### **AGBU 2101: Principles of Agriculture Economics, Finance & Marketing**

This is an introductory course providing the student with an appreciation of the principles of micro and macro-economics, finance concepts and the necessary marketing tools for entrepreneurship relating to both agriculture and marine start-up sustainable businesses. The student will also be introduced to the financial structure of the Bahamian economy with concentration on business leverage systems.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

MATH 1001 or MATH 1008 and AGRI 1102

### **AGBU 2201: Principles of Agribusiness Management**

This is an introductory course providing the student with an appreciation of the principles of business management within the scope of agriculture and entrepreneurship. Concepts of organization structures, microeconomics, marketing management, and finance management are explained.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

AGBU 2101

2nd Year standing

### **AGBU 2202: Agribusiness Operations Management**

This course aims to enable students to acquire the understanding of the agriculture input and output sector. The fundamentals and applications of agribusiness are detailed showing how products move from their source to the consumer highlighting the various processes. Basic principles of agribusiness operations and productivity; supply-chain management; layout strategies; human resource management and work measurements will be discussed.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

AGBU 2101, AGBU 2201

**AGRI 2212: Introduction to Agritourism**

This course is designed to introduce students to the basics of the tourism industry and its relationship with agriculture. The characteristics, concepts and sectors of tourism will be explored. A review of the Bahamian tourism industry and its economic impact will be covered. Also this course examines the way in which agro tourism can be developed as a viable business opportunity and contributor to the sustainable development of the Bahamas. By the end of the course students should be able to define the concept within a framework of social, managerial and economic development.

**Credits:** 3

**Prerequisites:**

Second-Year Standing

**CHEM 2000: Principles of Food Chemistry**

This is a content driven course that is supported by innovative demonstrations on food, weekly laboratory exercises, and collaborative exercises that solve real life problems. The course builds on previous core courses by applying chemical theories to food while using them to formulate hypotheses, and make predictions about food systems or model operations. Some topics completed include Processing Plants, Water Availability and Enzymatic Browning.

**Credits:** 4

**Prerequisites:**

BIOL 1001

MATH 1008

CHEM 1001

## Agriculture

**AGRI 1000: Food, Nutrition & Consumer Science**

Basic course to understanding the relationship between food, health and consumerism. Promoting more awareness of the relationship between food choices and health. Identifying how the food industry, manufacturing and retail sectors are addressing consumer concerns. Demonstrate the need for good quality, healthy and safe food, promoting a sound knowledge of food and nutrition principles and the development and production of food products.

**Credits:** 3

**AGRI 1101: Special Topics**

This course allows students to collectively choose a special interest topic, design a topic outline, and collaborate on the collection, discussion, and dissemination of information relevant to the selected topic. The students will brainstorm various issues or concerns surrounding the focus topic and seek to develop solutions to either prevent or alleviate those issues/concerns. A portfolio is to be built over the duration of the course, and presented at the end for a final grade.

**Credits:** 2

**Prerequisites:**

1st Year Standing

**AGRI 1102: Introduction to Agriculture**

Introduction to Agriculture will expose students to the definition of agriculture, the origin, scope and importance. It will also provide an in-depth orientation of food supply situations in the world, trend of distribution and how the Agricultural industry is organized, focusing on its global economic influence and the types of job opportunities in the agriculture field. Farming system practices; land tenure; land use types; fish, and farming agriculture are discussed. It will also highlight the history of agriculture in The Bahamas and Caribbean.

**Credits:** 2

**Class Hours:** 2

**Prerequisites:**

None

**AGRI 1103: Farm Skills I**

The farm skills course has been developed to expose learners to the practical principles and concepts involved in crops, livestock and aquaponics production systems, data collection, record keeping and agricultural value chains. It also aims to provide an introduction to modern technology driven agriculture and links theory to production.

**Credits:** 2

**Class Hours:** 4

**Prerequisites:**

1st Year Standing

**AGRI 1200: Introduction to Soil Science**

This introductory course is designed to teach students about the general principles of soil science. It examines the physical, chemical and biological properties of soils and soil formation.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

None

**AGRI 1201: Principles of Crop and Animal Sciences**

The plant protection component is designed to assist learners to develop an understanding of the biotic and abiotic factors responsible for irregularities plant growth and in stored plant products. It includes the study of common diseases, arthropods pests, weeds and their management using an integrated pest management approach. The animal health component discusses concepts related to animal health including parasites and diseases, impact of ill health and environmental conditions which predispose animals to ill health and focuses on a preventative approach of management.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

BIOL 1001

CHEM 1001

**AGRI 1202: Farm Skills II**

The farm skills course has been developed to expose learners to the practical principles and concepts involved in crops, livestock and aquaponics production systems, data collection, record keeping and agricultural value chains. It also aims to provide an introduction to modern technology driven agriculture and links theory to production.

**Credits:** 2

**Class Hours:** 4

**Prerequisites:**

AGRI 1103

**AGRI 1203: Soil and Water Management**

This course introduces learners to the fundamentals of soil and water management as a pre-requisite for crop production. It covers basic soils genesis, soil formation, and types of rocks. Soil is studied as a three phase system, solid, liquid and air their relationships and measurements. Soil chemical properties inclusive of pH, plant nutrient requirements, their assessment and management using different nutrient sources are presented. Water availability, crop requirements and management through irrigation as well as drainage and moisture conservation are also covered. Finally, learners are exposed to the areas of soil erosion, methods of soil conservation and soil biology. Students are also given the opportunity to do a range of research topics.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

CHEM 1001

**AGRI 1204: Crop Production I**

The focus of this course is to introduce students to the core concepts in crop production management. It will also serve to demonstrate the application of the knowledge of the biology of selected vegetable and grain crops, and the effect of soil and other environmental factors on growth and development to crop production management. Students will gain knowledge about sustainable or good agricultural practices for selected vegetable and grain crops and about agricultural technologies, production systems and their relationship to sustainable production. This course will also provide the knowledge-based competencies

**Credits:** 3

**Prerequisites:**

COMM 1001

AGRI 1103

**AGRI 1206: Introduction to Organic Agriculture**

This introductory course exposes students to the various components of organic agriculture, within the context of human health, nutrition and sustainability. It covers principles, concepts, and techniques of organic agriculture and marketing of organically-grown horticultural crops. It also focuses on the biological, social, and economic components of organic farming systems including soil and water management, cultural practices, pest control, harvest and postharvest handling, marketing of organic products, and organic agriculture policy. Issues and conflicts in perception of consumers and producers in the Caribbean context are also considered.

**Credits:** 2

**Prerequisites:**

BIOL 1001

SCIN 1001

BIOL 1001 OR SCIN 1001

**AGRI 1208: Livestock Production I**

This course will cover the basic principles of pig, poultry and rabbit production. It will provide students with the basic knowledge required for operating a pig, poultry or rabbit enterprise in the tropics, including management principles, with respect to housing, nutrition and health. Students will also be taught the identifiable characteristics of the major pig, poultry and rabbit breeds used in production within the CARICOM region, and exposed to the processing and marketing of non-ruminant livestock products. This course is so designed that students will not only be able to recommend sustainable non-ruminant production systems, but also design same. Practical input for this course is provided by the relevant farm practice exercises.

**Credits:** 3

**Prerequisites:**

AGRI 1102

AGRI 1200



**AGRI 1210: Turfgrass Management**

This course is designed to introduce students to key roles of turfgrass in the green industry and provide knowledge on tropical turfgrasses. It will create an awareness of environmental issues in turfgrass management, and introduce students to key operations, associated practices and equipment used to establish and manage turfgrass.

**Credits:** 2

**Prerequisites:**

AGRI 1102

SCIN 1001

**Co-Requisites:**

AGRI 1200

**AGRI 1214: Fundamental of Refrigeration for Agri-Studies**

This course will teach a broad range of technical skills necessary to work with heating, ventilation, air-conditioning, and refrigeration systems. It will also develop the student's ability to recognize and correctly employ the tools, equipment, and common materials used by HVACR technicians. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Emphasis will be placed on how refrigeration theory, principles and practices are used in the refrigeration cooling systems in the agricultural industry.

**Credits:** 3

**AGRI 1301: Agribusiness Internship**

The track in agricultural economics is intended to augment basic education in the science and technology of agricultural and marine sciences with fundamentals of economics and business. Fundamental knowledge of economic and business principles is essential for a graduate to be effective in any private sector enterprise involving the production, processing, transport, and marketing of the products of the land and the sea. Knowledge of economic principles is also essential for public sector employment involving planning and natural resource conservation, management and policy. The agricultural economics major emphasizes coursework in fundamental principles of business and economics. Specialized courses apply these principles to production, marketing, management, and agricultural, food, and natural resource policy. The internship is intended to expose the student to real world economic and business situations involving agricultural and marine products.

**Credits:** 3

**Class Hours:** 240

**Prerequisites:**

Minimum of 15 Credits in Agriculture Program, >2.0 GPA, Institute Approval

**AGRI 1301: Agriculture Internship**

This internship is typically done after the completion of year one in the Agriculture Program. It is designed to provide opportunities for students to receive practical work experience in government and private sectors within the Commonwealth of The Bahamas. Training may be in research or working under the supervision of qualified experienced personnel in the various sectors of Agriculture and fisheries.

**Credits:** 3

**Class Hours:** 240

**Prerequisites:**

1st Year Good Standing (Minimum of 15 Credits in Agriculture Program >2.0 GPA, Institute Approval)

**AGRI 2000: Sustainable Tropical Landscaping**

This course will provide basic knowledge of landscape and plant management. Learners will develop a sustainable landscape plan based on site evaluation, environment, soil, and plant components. Material will focus on maintenance and repair of selected landscapes and installation of landscape plants.

**Credits:** 4

**Prerequisites:**

BIOL 1001

AGRI 1202

AGRI 1102

**AGRI 2100: Agricultural Commodity Utilisation and Product Development**

Learners will be introduced to the major categories of agricultural commodities (crops, livestock, and bioenergy), their availability, and sustainable utilisation. The major processing methods of local commodities will be explored. Learners will be then introduced to product development, branding and marketing and apply these concepts to the development of their own product

**Credits:** 4

**Prerequisites:**

BIOL 1001

CHEM 1001

AGRI 1202

AGRI 1102

**AGRI 2102: Farm Skills III**

The farm skills course has been developed to expose learners to the practical principles and concepts involved in crops, livestock and aquaponics production systems, data collection, record keeping and agricultural value chains. It also aims to provide an introduction to modern technology driven agriculture and links theory to production.

**Credits:** 2

**Class Hours:** 4

**Prerequisites:**

AGRI 1202

**AGRI 2104: Crop Production II**

This course will introduce students to the application of core concepts in crop production management to root and tuber crops, banana and plantain, and selected perennial crops. It focuses on the application of the knowledge of the biology of these crops and the effect of soil and other environmental factors on their growth and development, and to their production management. The course will also provide students with information on good agricultural practices for selected root, tuber and perennial crops, agricultural technologies and production systems for the selected crops, and most importantly, on the knowledge-based competencies required to support practical and entrepreneurial exercises in sustainable production of selected root tuber and perennial crops.

**Credits:** 3

**Prerequisites:**

COMM 1001

AGRI 1204

**AGRI 2106: Sociology for Agriculture**

This course will introduce students to the key concepts of the sociology of agriculture, while focussing on the importance of rural sociology within the sphere of agricultural extension. To facilitate an understanding of this linkage, students will explore the characteristics of West Indian and rural societies and be taught to understand the differences between various societies and groups/associations. The course will also expose students to topics such as educational psychology, motivation, teaching and learning.

**Credits:** 2

**Prerequisites:**

COMM 1001

**AGRI 2108: Livestock Production II**

This course is designed to develop knowledge and skills in the production of beef cattle, dairy cattle, sheep, goats and water buffalo. It focuses on modern scientific approaches to ruminant production in the CARICOM region, and begins by examining the significance of ruminants in agricultural ecosystems, the physiology of ruminants, housing and environment, in addition to species characteristics and production systems. The farm practice exercise conducted at the end of the semester in which this course is taught, provides the practical input for this course.

**Credits:** 3

**Prerequisites:**

AGRI 1208

AGRI 1202

**AGRI 2110: Apiculture**

This course will introduce students to the importance and potential of apiculture within the agricultural sector. It will also serve to provide them with basic information for the establishment and maintenance of an apiary.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

BIOL 1001

SCIN 1001

SCIN 1001 or BIOL 1001

**AGRI 2110: Integrated Pest Management**

This course will cover the fundamentals of integrated pest management. Students will be exposed to various pest management techniques for best practices in crop management.

**Credits:** 3

**Prerequisites:**

AGRI 1102

AGRI 1202

**AGRI 2112: Protected Agriculture**

Protected agriculture has become an important production system especially in light of changing climatic conditions. Students will be exposed to key aspects of this technological production system; design and layout, environmental conditions, water and fertigation management, growing media and plant nutrition, cultural practices, including IPM, postharvest consideration and marketing. Students will spend a significant amount of time working in a greenhouse to foster practical skill development.

**Credits:** 2

**Class Hours:** 3

**Prerequisites:**

2<sup>nd</sup> Year Standing

**AGRI 2114: Livestock Feeds and Feeding**

In this course learners will be exposed to the following: -Classification of feedstuffs; Water content in feeds; Characteristics of common feedstuffs; Antinutritional factors; Nutrient requirements and Feeding standards; Forage quality and factors affecting it; Feed preparation and processing; Ration formulation and Feed mixing; Forage conservation; Feed budgeting

**Credits:** 3

**Prerequisites:**

2<sup>nd</sup> Year Standing

**AGRI 2201: Livestock Production and Management**

This course provides an introduction to the structure of the livestock industry in the Caribbean. It further introduces learners to the systems of production and best management practices for rearing to market and the breeding of poultry (eggs and broilers), swine, sheep and goat, rabbit, and beef and dairy cattle. The course also presents a brief coverage of semi-commercial and commercial production practices inclusive of feeds and feeding systems, housing, health and disease prevention and control, waste management, records management and introduction to entrepreneurship within the livestock sector.

**Credits:** 3

**Class Hours:** 4

**Prerequisites:**

AGRI 1201

**AGRI 2202: Introduction to Crop and Livestock Health and Food Safety**

In this course, students will be introduced to basic microbiology and the importance of microorganisms to food and agriculture. Along with this, concepts such as what a 'pest' is, and the nature of pest damage will also be explored. Students will also be taught how to relate the biology and ecology of various organisms to their pest status, and apprised of those techniques that are appropriate for the management of major pests affecting crop and livestock health.

**Credits:** 3

**Prerequisites:**

2<sup>nd</sup> Year Standing

**AGRI 2205: Principles of Crop Production**

The course focuses on the role of crops in agricultural development in the Caribbean. It covers the production of crop groups of importance for food, feed, fibre and fuel including i) vegetables, ii) legumes, iii) root/tuber crops, iv) fruit/tree crop v) forages vi) herbs/medicinal, viii) ornamental horticulture, ix) and turf grass. The course will review site and soil selection, seed bed preparation, seed/seedling production, crop establishment, nutrient application, irrigation/moisture management, plant protection; plant/crop production and management in hydroponics and protected cultivation systems; harvest and post-harvest management, and introduction to crop value chain and marketing and research topics are also done.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

AGRI 1201

**AGRI 2206: Occupational Health and Safety**

This course provides basic knowledge and skills to enable competence in the field of agriculture health and safety. The essential elements of the course include all major safety and health principles and practices including personal safety, first aid, CPR, environmental issues, and handling of hazardous materials.

**Credits:** 3

**Prerequisites:**

None

**AGRI 2207: Agroforestry**

This course provides an overview of the types of agro-forestry/forestry systems, their use, potential and the identification of challenges as well as proposing basic solutions. It introduces the concept of agroforestry, forests and their contribution to environment and climate change mitigation. It also looks at forest/agro-forest products, services, and potential value chains.

**Credits:** 3

**Prerequisites:**

2nd Year Standing

**AGRI 2208: Post-Harvest Management**

This course aims to provide learners with a brief exposure to post harvest management techniques as a means of minimizing losses of crop, fish and livestock products. The course is divided into two units. Unit one looks at the post harvest management of crops whereas Unit two reviews post harvest management of fish and animal products.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

AGRI 1201

AGRI 1202

**AGRI 2211: Nursery Management**

This course will introduce students to different nursery production systems, along with the key nursery operations and associated practices and technologies. It also seeks to create an awareness of consumer preference and encourage an appreciation of the potential contribution of plants to human well-being.

**Credits:** 3

**Prerequisites:**

COMM 1001

**AGRI 2212: Introduction to Agritourism**

This course is designed to introduce students to the basics of the tourism industry and its relationship with agriculture. The characteristics, concepts and sectors of tourism will be explored. A review of the Bahamian tourism industry and its economic impact will be covered. Also this course examines the way in which agro tourism can be developed as a viable business opportunity and contributor to the sustainable development of the Bahamas. By the end of the course students should be able to define the concept within a framework of social, managerial and economic development.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

Second-Year Standing

**AGRI 2218: Crop Nutrition and Soil Management**

This course covers environmentally sound crop nutrient and soil management strategies. It will focus on the effects of environmental conditions, soil degradation, soil and nutrient management on crop production and environmental quality will be outlined. In addition, the course is intended to expose students to theoretical aspects of plant mineral nutrition, soil health and quality with complimentary practical training in basic principles of fertilization and soil and water conservation.

**Credits:** 3

**Prerequisites:**

AGRI 1200

AGRI 2104

**AGRI 2220: Plant Protection and Animal Health**

The plant protection component is designed to assist learners to develop an understanding of the biotic and abiotic factors responsible for irregularities plant growth and in stored plant products. It includes the study of common diseases, arthropods pests, weeds and their management using an integrated pest management approach. The animal health component discusses concepts related to animal health including parasites and diseases, impact of ill health and environmental conditions which predispose animals to ill health and focuses on a preventative approach of management.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

AGRI 1104, AGRI 2201

**AGRI 2221: Food Safety**

The purpose of this course is to provide an understanding of food safety and its importance in the food supply chain which includes agriculture, and the food industry; and the control of food safety hazards.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

BIOL 1001

CHEM 1001

AGRI 1201

**AGRI 2223: Horticulture**

The course will cover the core principles of horticulture with emphasis on plant taxonomy, the horticulture industry, historical, current and future trends in horticulture globally and regionally.

**Credits:** 3

**Prerequisites:**

AGRI 1102

AGRI 2102

**AGRI 2224: Introduction to Farm Equipment and Buildings**

This course is designed to provide students with an appreciation of the importance of engineering to farm operations and management. It does so by introducing them to the range of tools and equipment used in crop and livestock production and their operation, plus providing knowledge and practice in the safe operation and basic maintenance of tools and equipment. It will also expose students to the range of buildings and other infrastructure used in agricultural operations.

**Credits:** 2

**Prerequisites:**

SCIN 1001

**AGRI 2402: Agro-forestry and Forest Resources Management**

This course provides an overview of the types of agro-forestry/forestry systems, their use, potential and the identification of challenges as well as proposing basic solutions. It introduces the concept of agro forestry, forests and their contribution to environment and climate change mitigation. It also looks at forest/agro-forest products, services, and potential value chains.

**Credits:** 3

**Prerequisites:**

First Year Standing

**BIOL 2001: Genetics**

This introductory course explores the fascinating field of genetics. Students are presented an overview of terms, principles, and research methods used in the study of genetics. Students learn about the transmission, distribution, arrangement, and alteration of genetic information and how it functions and is maintained in populations. Additionally, students will become familiar with the practical applications of basic theory to human, plant, animal and fish species.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

BIOL 1001

CHEM 1001

MATH 1001

## Aquaculture

### **AQCL 1301: Aquaculture Internship**

This option should provide students with a general scientific background in marine sciences: marine science and ecology, fisheries science and technology. It should also provide thorough theoretical and practical training more specifically in aquaculture.

**Credits:** 3

**Class Hours:** 240

**Prerequisites:**

Minimum of 15 Credits in Agriculture Program,  
>2.0 GPA, Institute Approval

### **AQCL 2101: Fish Nutrition and Health**

Whether one is culturing organisms for ornamental or consumption, the health of the organism is of utmost importance. It is a major factor in succeeding. In this class, students will learn the fundamental and current issues pertaining to host/ pathogen interactions as it relates to aquaculture. Students will gain a basic understanding of common pathogens, the processes of diseases and disease management.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

MARN 1201  
MASC 1102

### **AQCL 2201: Aquaponics**

This course will introduce students to the various aquaponic food production systems, and farming in soil-less conditions. It covers the theoretical basis of aquaponics, the nitrification process and the function of bacteria in the system. The laboratory component includes the building of a small scale aquaponic unit.

**Credits:** 4

**Class Hours:** 6

**Prerequisites:**

MASC 1102

## Art and Environmental Science

### **AGRI 2102: Climate Change and the Environment**

Climate change is a global phenomenon that effect various ecological and social systems. This course will examine the fundamental scientific principles and concepts that lead to climate change and provide a contextual reference as to its cause, impact, mitigation and management

**Credits:** 3

**Prerequisites:**

BIOL 1001  
CHEM 1001

### **AREV 1001: Drawing I**

This course is an introduction and foundation to the visual language of drawing. The course will explore linear and contour drawing, value, and perspective with special emphasis on drawing for science education. Observational drawing is emphasized in this course. Students will learn different mediums of drawing, the vernacular of visual language, how to critique and analyze artwork, as well as how to compose and execute a drawing. This course is to serve as a foundation for visual critique and analysis, and for students to learn basic drawing exercises, styles, and mediums.

**Credits:** 3

**Prerequisites:**

1st Year Standing

### **AREV 1002: Drawing II**

This is an intermediate course, which focuses on improving perceptual skills. This class explores anatomy, composition, and expression of the human figure and architectural subjects. Observational drawing is emphasized in this course, along with a visit to 2-3 museums or sites to draw.

**Credits:** 3

**Prerequisites:**

AREV 1001

**AREV 1005: Methods and Theories of Art History**

Methods and Theories of Art History is an intermediate Art History course that focuses on methods and approaches to Art History. Students will explore methodologies employed by art historians to understand Art; Formalism, Iconography, Semiotics, Marxism, Feminism, Sexualities, Cultural Studies, and Postcolonial Theory. This course will cover a range of critical theories and divergent perspectives and approaches used in analysing Art. Students will participate in discussion, critical reading and reflection as they learn to articulate their ideas, positions and voices.

**Credits:** 3

**Prerequisites:**

1st Year Standing

**AREV 1007: 2D Methods and Concepts**

In this course, students are engaged in intensive investigation of essential principles as form, line, space, colour, balance, and unity in two-dimensional design. Projects are assigned in sequence leading to specific visual solutions. Various media are used.

**Credits:** 3

**Prerequisites:**

1st Year Standing

**AREV 1009: 3D Methods and Concepts**

**Credits:** 3

**AREV 1301: Art and Environment Internship**

The object of the internship is to provide professional experience that will help the student grow and develop artistically and professionally. A further objective is to give the student a chance to work effectively within an organization and allow the intern to show initiative, self-direction, and artistic and scientific skill in a 'real world' setting. Student interns will work in an art environment. Internships vary according to the individual student interests and art faculty recommendations

**Credits:** 3

**Prerequisites:**

2nd Year Standing Minimum of 15 Credits in Art and Environment Program, >2.0 GPA, Institute Approval

**AREV 2001: Art and Ecology I**

In this course students will learn about the intersections between Art and Ecology. Students will use and combine foundational knowledge in the Arts and Sciences to create works of art which are directed toward problem solving and bringing attention to environmental problems on a global and local scale.

**Credits:** 3

**Prerequisites:**

ECOL 1201

**AREV 2002: Art and Ecology II**

This is an intermediate course in art and ecology. Students will deepen their knowledge building on skills learnt in art and ecology I. In an effort to understand how to effectively use eco art strategies to problem solve and bring attention to environmental problems on a local and global scale through the creation of artwork.

**Credits:** 3

**Prerequisites:**

AREV 2001



**AREV 2004: Ceramic Sculpture**

This is a beginner's ceramics course, focused on developing technical hand-building skills through a series of creative projects. Hand-building techniques will include pinch, coil, slab, extruding, and moulds. Throughout the semester students will create work using these techniques along with research and critiques of their own work as well as the work of other practicing artists. Technical and aesthetic concepts of forming functional and expressive objects in clay using the hand process will be explored.

**Credits:** 3

**Prerequisites:**

AREV 1009

**AREV 2006: Documentary Photography**

Students will explore traditional and contemporary approaches to documentary photography through individual photography assignments, lectures, and readings. Students will be encouraged to photograph in unfamiliar environments with emphasis on ecologies of Andros. Students will work with DSLR, 35 mm cameras for the duration of this course. Students should have basic competency in use of 35mm DSLR cameras set on manual mode before taking this class

**Credits:** 3

**Prerequisites:**

2nd Year Standing

**AREV 2009: Painting I**

This is a basic painting course, which emphasizes observational painting, theory, and development of pictorial ideas and skills. Students will use a variety of painting media, tools and materials to build foundational skills in painting. This course allows students to explore the conceptual, technical and aesthetic aspects of painting.

**Credits:** 3

**Prerequisites:**

AREV 1001

AREV 1002

**AREV 2010: Painting II**

In this course students examine the relationship between materials, technique, and content in all aspects of painting. The elements of Painting I are further explored. Students will learn how to select an effective and personal approach to using technique and thematic content to develop personally meaningful paintings.

**Credits:** 3

**Prerequisites:**

AREV 2009

**AREV 2012: Survey of Bahamian and Caribbean Art**

Survey of Bahamian and Caribbean Art is an Art History course that serves as an introduction to Caribbean art with a focus on Bahamian art. Students will explore art from the English-, Dutch-, French- and Spanish-speaking Caribbean from the 20th Century to present. Students will participate in discussion, critical reading and reflection as they learn to articulate their ideas, positions and voices.

**Credits:** 3

**Prerequisites:**

1st Year Standing

**AREV 2015: Thesis and Exhibition**

This course prepares students for thesis and final exhibition. Students will be introduced to a resources and organizational tools that enables artists to develop their practice by building the necessary management and technical skills to maintain a productive career in the Arts. Students will combine the skills covered in the program to create a body of work that focus on art and environment through function and context for an art exhibition.

**Credits:** 3

**Class Hours:** 4

**Prerequisites:**

2nd Year Standing

**ART 1209: 3D Methods and Concepts**

In this course learn about the formal elements of art and design according to the principles of organization in three-dimensional composition. Various media, techniques and equipment are introduced.

**Credits:** 3

**Prerequisites:**

1st Year Standing

**ECOL 1201: Fundamentals of Ecology**

Ecology describes the flow of energy, cycling of bio-geochemical materials and succession of natural systems. It shows the interrelationship between biotic and abiotic environmental components and how ecosystems work. The importance of balance in an ecological system is paramount. This course will show how human activity can affect the delicate balance of an ecosystem.

**Credits:** 4

**Class Hours:** 5

**ENVR 1301: Environmental Science Internship**

This option is borne out of the relationship with the Department of Forestry. Its goal is to prepare students to address pressing natural resource, environmental and energy issues. Students are guided through active learning, preparing them to be leaders and stewards in sustainable forest management.

**Credits:** 3

**Class Hours:** 240

**Prerequisites:**

Minimum of 15 Credits in Agriculture Program,  
>2.0 GPA, Institute Approval

**ENVR 2101: Environmental Science Techniques**

This course introduces students to a variety of analytical techniques and instruments utilized in environmental analysis. It is designed to provide students with hands-on experiences that help them put theory into practice and develop a better understanding of the process of science and the tools used by environmental scientists through experiential learning. Students will understand how to properly research, measure and evaluate both marine and terrestrial ecosystems. Exercises will provide students with experiences that highlight key concepts in environmental science, foster critical thinking on environmental issues, and provide opportunities to truly utilize the Scientific Method. Laboratory time will include both bench work and field experiences.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

GEOG 1001

ECOL 1201

**ENVR 2102: Climate Change and Environmental Management**

Climate change is a global phenomenon that affects various ecological and social systems. This course will examine the fundamental scientific principles and concepts that lead to climate change and provide a contextual reference as to its cause, impact, mitigation and management.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

CHEM 1001 & BIOL 1001

**ENVR 2102: Introduction to Environmental Science**

Environmental science is the study of human interactions with ecological systems. This interrelationship raises important questions about human alterations of ecological systems. We will consider social, political and economic aspects of environmental science and how these components may or may not coincide with sustainable use of natural resources.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

ECOL 1201

GEOG 1001

**ENVR 2104: Environmental Pollution and Control**

Healthy ecosystems rely on interactions between the living portions of the environment and its non-living components. However, anthropogenic activities can cause significant disturbance resulting from the accidental or deliberate introduction of pollutants into the environment. These disturbances can cause significant alterations in the interactions between the various components that make up the ecosystem. The main focus would be on the effects of these pollutants and how they can be assessed using physicochemical and biological endpoints.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

2nd year standing.

**GEOG 1001: Geography**

This course will facilitate the basic understanding of the processes that affect physical and human environments. It will contribute to the awareness and understanding of location on a local, regional and global scale while encouraging the use and analysis of geographical data and information. Through field and case studies students will have the opportunity to observe, experience, and appreciate the intricate interdependence and inter-relationships that comprise the human and natural systems.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

None

## Business

**ACCT 1201: Principles of Accounting**

This is an introductory course that will expose the student to Generally Accepted Accounting Principles. Students will gain the ability to analyse transactions, apply approaches to the general ledger, and report the results through the preparation of financial statements to be used by internal and external decision makers. The fundamentals of the accounting cycle, accounts receivable, fixed assets, longterm liabilities, payroll and petty cash will be examined.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

MATH 1001

First-Year Standing

**ACCT 2001: Managerial Accounting**

This course is an introductory level managerial accounting course designed to give students a fundamental understanding of accounting as a decision making tool within an organization. Emphasis will be placed on the identification and assignment of product costs, operation budgeting and planning, costs control, and management decision making

**Credits:** 3

**Prerequisites:**

ACCT 1201

MATH 1008

MATH 1001

MATH 1008 or MATH 1001

**BUSS 1001: Introduction to Business**

A foundation course on the role and function of a business enterprise. Includes organization, finance, marketing, administration, human resources, customer service, data management, international business, small business and economic tools. Designed primarily to help students describe basic environments in which a business operates. Explain basic concepts of management and recognize problems faced in operating a business. Describes basic concepts related to the marketing of goods and services. Provide information with respect to money and banking, financial management, accounting, law, ethics and the role these play in business. Describes how these factors could affect their careers.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

1<sup>ST</sup> Year Standing | 1<sup>ST</sup> Year Standing

**BUSS 1301: Business Internship**

**Credits:** 3

**BUSS 2010: Business Ethics**

This course introduces students to the basic principles of ethics in business. It explores the ethical responsibilities of organizations to employees and employees to the organization. Students will learn the important role ethics plays when making business decisions.

**Credits:** 3

**Prerequisites:**

COMM 1001

BUSS 1001

**BUSS 2100: Principles of Microeconomics**

Principles of Microeconomics is an introductory course that teaches the fundamentals of microeconomics. This course introduces microeconomic concepts and analysis, supply and demand analysis, and gives students an understanding about how the economy functions as it relates to individuals and businesses. This introductory course also explores the principles of production and consumption—and the exchange of goods and services—in a market economy

**Credits:** 3

**Prerequisites:**

MATH 1008

MATH 1001

OR MATH 1001

**BUSS 2104: Introduction to Human Resource Management**

This course examines the role of human resources in align employees with the companies strategic objectives. Key functions such as recruitment and selection, onboarding, staff development and coaching, motivation, employee engagement and retention, compensation and benefits, labour relations, social media and leadership roles are examined. Implications of legal and global environment issues such as diversity training, sexual harassment policies, and benefit costs are analysed. Best practices in the workplace are considered.

**Credits:** 3

**Prerequisites:**

None

**BUSS 2204: Leadership Development**

The course is designed to give students an understanding of the various leadership styles that exist within an organization and to develop strategies when interacting. Students would be able to identify the strengths and weaknesses of their own style so that they would be able to communicate more effectively.

**Credits:** 3

**Prerequisites:**

COMM 1001

**COMM 1201: Business Writing**

This course is intended to prepare students to communicate effectively in any business environment. Students will learn the fundamentals of good business writing, including protocols for business letters, memoranda, electronic mail, good and bad messages, persuasive messages and formal reports and proposals.

**Credits:** 3

**Prerequisites:**

COMM 1001

**LAWS 1201: Business Law**

This course introduces the student to the legal framework of business. Contracts, the law of sales, torts, crimes, constitutional law, and the court systems in the Bahamas will be examined. A number of examples and case studies will be used throughout the course to better enable understanding of various topics in a practical situation.

**Credits:** 3

**Prerequisites:**

COMM 1001

**MRKT 2101: Marketing**

**Credits:** 3

**Prerequisites:**

AGBU 2101

## College Prep

**BIOL 0101: College Prep Biology**

This preparatory course in biology introduces the student to basic biological concepts and laboratory skills. Students are expected to develop critical thinking and problem solving skills to resolve everyday issues. Topics include scientific method, characteristics of living things, cell theory, water properties, classification, flowering plants, nutrition, genetics and ecology.

**Class Hours:** 3

**Prerequisites:**

BJC General or Health Science or BJC Consumer Sciences

**CHEM 0102: Pre-College Chemistry**

This course introduces students to basic concepts in chemistry. Topics include matter, periodic table, bonding, ocean and organic chemistry.

**Credits:** 0

**Class Hours:** 5

**Prerequisites:**

BJC General Science or equivalent

**COMM 010: College Prep English I**

This English Language course is designed to meet the need of the students. It would help students adhere to grammar rules, follow the principles of punctuations and capitalization, as well as reinforce their knowledge of the eight parts of speech. These will help students improve their vocabulary and writing.

**Credits:** 0

**Class Hours:** 3

**Prerequisites:**

None

**COMM 0102: College Prep English II**

This programme will take a two track approach to enable students to benefit from a rounded experience.

1. Language and Comprehension
2. Language as Communication.

The outcome of their study will enable them to have a good grasp of the rules and principles in the English Language. These will then be applied in the focus of Language as Communication

**Credits:** 0

**Class Hours:** 3

**Prerequisites:**

None

**MATH 0101: College Prep Math I**

This course integrates the topics of arithmetic and beginning algebra. In this course you will add, subtract, multiply, and divide whole numbers, fractions, decimals, and solve related applications; compute percents and solve related applications; find the perimeter and area of plane figures and volumes of solids; perform operations on signed numbers; solve linear equations and inequalities in one variable; perform operations on and factor polynomials; evaluate and simplify expressions with integer exponents; simplify radicals; graph linear equations; simplify algebraic fractions; and solve applications of these topics.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

None

**MATH 0201: College Prep Math II**

This course integrates the topics of arithmetic, algebra, statistic and trigonometry. In this course you will add, subtract, multiply, and divide whole numbers, fractions, decimals, and solve related applications; compute percents and solve related applications; find the perimeter and area of plane figures and volumes of solids; perform operations on signed numbers; solve linear equations and inequalities in one variable; perform operations on and factor polynomials; evaluate and simplify expressions with integer exponents; simplify radicals; graph linear and quadratic equations; simplify algebraic fractions; as well as solve trigonometric and statistical problems.

**Class Hours:** 3

**Prerequisites:**

MATH 0101

## General Education

**BIOL 1001: College Biology**

This introductory course in biology introduces the student to the basic biological concepts. Topics include scientific method, characteristics of living things, cell theory, biochemistry, classification, genetics and ecology.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

Pre-College Biology 1 & 2 or equivalent, or Grade >C in BGCSE Biology

**CHEM 1001: Fundamentals of Chemistry**

This course introduces students to basic concepts in chemistry. The rudiments of physical, inorganic and organic chemistry are studied theoretically and in the laboratory. Topics include chemical and physical changes, bonding, mixtures, compounds, fertilizers and ocean chemistry.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

Grade >C in a BGCSE Science or Pre-College Biology 1 & 2

**COMM 1001: College English**

The course is designed to provide students with a comprehensive writing experience. Writing is an instrument that facilitates effective communication. In order for the communication experience to be successful the writer has to possess the skills and reflect understanding in the fundamentals of English rules; application of these rules will enable successful writing.

**Credits:** 3

**Class Hours:** 4

**Prerequisites:**

Pre-College English 1 & 2, or Grade >C in BGCSE

**COMM 2001: Extension and Communication**

This program is done on a two track approach. It has the Extension component as well as the Communication aspect. In each instance, the tracks are viable for the completion of their Associates Degree. The course provides the students with the skills, knowledge and understanding of how to take leadership in crisis situations. Students will participate in problem solving and management of projects that will promote agricultural development and at the same time target the general public. It is practical and heavily student-involved. This course will help the participants develop the skills needed to be effective communicators, in the future, when they serve as practitioners in the various Islands across The Bahamas.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

COMM 1001

**COMP 1002: Computer Essentials**

Computer Essentials is designed to familiarize students with the fundamental concepts of computer hardware, software and a variety of computer applications, including word processing, spreadsheets, databases, and multimedia presentations. Students will also investigate internet based applications, working with e-mail and learn how to browse the web.

**Credits:** 2

**Class Hours:** 2

**Prerequisites:**

None

**EDU 2001: Introduction to Research Methods**

This course introduces students to basic techniques in research methods. Topics include abstract, literature review, methodology, research techniques and recommendations. The curriculum involves practical work that is designed to develop competence in scientific investigations and prepare students for their final research paper.

**Credits:** 2

**Class Hours:** 2

**Prerequisites:**

First year standing

**EDUC 1001: Student Success and Development**

**Credits:** 1

**Prerequisites:**

1st Year Standing

**EDUC 1002: Physical Development**

This course is design to provide students with a weekly opportunity to engage in organized physical activities such as sports and various exercise regimens including aerobics, physical conditioning, and body strengthening.

**Credits:** 1

**Class Hours:** 2

**Prerequisites:**

1st Year Standing

**EDUC 2001: Introduction to Research Methods**

**Credits:** 2

**Prerequisites:**

COMM 1001

MATH 1008

MATH 1001

MATH 1001 or MATH 1008

**EDUC 2201: Directed Study**

This course allows students to apply basic techniques in research methods. The curriculum develops practical skills to exhibit competence in scientific investigations and complete their final research paper. Topics include abstract, literature review, methodology, research techniques and evaluations.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

COMM 1001

EDUC 2001

MATH 1001

MATH 1008

2nd Year Good Standing

MATH 1001 OR MATH 1008

**MATH 1000: Technical Mathematics**

This course integrates the topics of arithmetic and algebra to solve routine problems in agricultural operations.

In this course, one will use simple calculations to determine rates, proportions, conversions, quantities, areas, volumes and related applications. Students will be trained to use mathematical concepts to facilitate agricultural operations including farm building establishment and land preparation.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

None



### **MATH 1001: College Mathematics**

The course introduces fundamental mathematics concepts such as arithmetic, algebra, log and exponentials, trigonometry, measurements and units, probability, linear equations, non-linear functions, differential and integral calculus..In this course students will develop the ability to reason with quantitative information, through the study of the principles of reasoning, logic, number sense, probability and statistical reasoning, and mathematical modeling. It provides a foundation for other courses in applied science and agricultural science programs

**Credits:** 3

**Prerequisites:**

Pre-college Math 1 & 2, Grade >C in BGCSE or Math Placement Test (score >70%).

### **MATH 1008: Business Mathematics**

The course introduces fundamental mathematics concepts such as arithmetic, algebra, log and exponentials, trigonometry, measurements and units, probability, linear equations, non-linear functions, differential and integral calculus.. In this course students will develop the ability to reason with quantitative information, through the study of the principles of reasoning, logic, number sense, probability and statistical reasoning, and mathematical modelling. It provides a foundation for other courses in applied science and agricultural science programs

**Credits:** 3

**Class Hours:** 4

**Prerequisites:**

Pre-college Math 1 & 2, Grade >C in BGCSE or Math Placement Test (score >70%).

### **MATH 2104: Introduction to Statistics and Data Analysis**

This course presents the basic principles and practice of statistics and data analysis that are used in collecting data and converting to information. It will seek to equip and empower students to discover the real-world subject-matter relevance to other courses in the programme through the use of related examples.

**Credits:** 3

**Prerequisites:**

MATH 1001

MATH 1008

MATH 1001 or MATH 1008

### **PSYCH 1001: Introduction to Psychology**

This course introduces students to the basic concepts and theories of psychology. A wide range of topics will be covered during the course of this semester, ranging from the history and theories of psychology to the brain and nervous system, personality, emotion, and psychological disorders. During this semester, we will engage in ethical intellectual discussions, develop critical thinking skills, and learn to apply psychological principles to your everyday life.

**Credits:** 3

### **SCIN 1001: Integrated Science**

This preparatory course in integrated sciences introduces the student to basic concepts in physics, chemistry and biology. Students are expected to develop critical thinking and problem-solving skills to resolve everyday issues. Topics include scientific method, motion and energy, the periodic table and chemical reactions, the earth's atmosphere and surface, characteristics of living things, water properties, classification, flowering plants, animals and nutrition.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

None

# Marine Science

## **MARN 1201: Introduction to Marine Ecology**

This course is design to explore specifically the ecology, morphology and taxonomy of marine organisms with emphasis on species that inhabit the shallow water and coral reef ecosystems of the Bahamas.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

BIOL 1001

## **MARN 1202: Global Fisheries Management**

Students will gain knowledge of behavior, habitat use, population dynamics, and trophic relationships relevant to understanding issues surrounding fisheries exploitation and management. This course will introduce students to the techniques used in fisheries science and will examine human impacts on, and management of marine populations. Students will be introduced to industrial and artisanal fishing methods and the techniques used by fisheries biologists and ecologists in the study of population biology and ecology. They will be made aware of the issues around the impact of fishing on society and the environment. Finally, they will learn about local and international laws and management techniques for sustainable fisheries including marine protected areas, rights-based fishing and traditional management methods.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

BIOL 1001

## **MARN 2101: Oceanography**

The ocean is a complex environment made up of many subsystems all of which interact with the atmosphere and the biosphere. This course will introduce students to each of those systems and how all work together to drive ocean currents, weather patterns and life cycles on earth. Topics include physics and chemistry of seawater, plate tectonics, major ocean basins and features, major ocean circulation patterns and currents, characteristics of deep and shallow water waves and the tides along with interactions of atmosphere with the oceans.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

MATH 1001

CHEM 1001

Math 1001 & CHEM 1001

## **MARN 2102: Tropical Ichthyology**

This course is designed to familiarize students with the most numerous and diverse group of vertebrates – fishes. Topics to be covered include taxonomy and classification, species diversity, morphology, distribution, behaviour and management, particularly in relation to fish found in The Bahamas and the Western Central Atlantic Ocean.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

MARN 1201

MASC 1102

## **MARN 2103: Marine Conservation and Management**

This course will introduce students to marine conservation and governance, and how science can influence management decisions at the national and international levels to maintain marine environmental health.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

MARN 1201

**MARN 2106: Marine Invertebrate Zoology**

Study of the comparative morphology, evolution, systematic and natural history of the invertebrates. Unlike most other biology courses (which are based on specific sub-disciplines of biology), invertebrate zoology is a broad view across the fields of ecology, physiology, cell biology, embryology, behavior, evolutionary biology and others. The tremendous diversity in form and function of the invertebrates provides unique and important insights into these fields.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

BIOL 1001

**MARN 2201: Coral Reef Ecology**

This course introduces students to the basic biology of corals and coral reefs, including a discussion of ecological principles such as: competition, diversity, symbiosis, disturbance, adaptation, reproduction, and recruitment. Also examines the major taxa living in coral reef ecosystems of The Bahamas, Caribbean and Florida, including seagrasses and mangroves. Latter portions of the course introduce current policies and best practice for coral reef conservation and management. The in-field laboratory portion will illustrate concepts from the lectures, and give students practical experience in basic coral reef monitoring techniques.

**Credits:** 3

**Prerequisites:**

MARN 1202

MARN 2102

**MARN 2202: Scuba Diving and the Marine Environment**

This is a multi-disciplinary course designed to provide students with intensive training in preparation for continued marine science education. This course will include a review of the theory and practical application of diving through the use of scuba diving skills and research methodology as applied to the fields of marine biology, physical oceanography and marine archaeology.

**Credits:** 3

**Prerequisites:**

MARN 1201

EDUC 2201

**MASC 1102: Introduction to Aquaculture**

This course is an introduction to the world of aquaculture. Students will learn the origins, purpose and implementation of aquaculture as it relates to different areas in the world and economies. The scale of aquaculture will be discussed and the general information in building an aquaculture system will be provided.

**Credits:** 4

**Class Hours:** 5

**Prerequisites:**

AGRI 1102

**MASC 1301: Marine Science Internship**

The option provides students with a theoretical and practical training in numerous fields of marine sciences and fisheries. The students should receive a general scientific background in marine sciences: marine science and ecology, fisheries science and technology and aquaculture.

**Credits:** 3

**Class Hours:** 240

**Prerequisites:**

Minimum of 15 Credits in Agriculture Program,  
>2.0 GPA, Institute Approval

**MASC 2101: Coastal Zone management**

This course focuses on the problems and conflicts that arise from increased use of coastal zone areas and considers the evaluation of possible management solutions in order to achieve sustainability.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

MARN 1201

**MASC 2103: Marine Field Skills**

Marine biodiversity is one of the Bahamas'92 richest resources. To fully understand and prepare for a career path in the marine sciences, students will gain hands-on experience and understand how to properly research, measure and evaluate the marine ecosystems in order to understand how to harness and protect these resources. This course will introduce students to the ecology and research methods appropriate for three marine environments: mangrove habitats, seagrass beds, and coral reefs. Students will become familiar with the most prevalent techniques in the field and the lab to evaluate the status of these ecosystems. Topics include basic life cycles of these environments, introduction to major flora and fauna included in each and hands-on research techniques to evaluate and understand these ecosystems.

**Credits:** 2

**Class Hours:** 3

**Prerequisites:**

BIOL 1001

AGRI 1102

**MASC 2107: Scuba Diving and the Marine Environment**

This is a multi-disciplinary course designed to provide students with intensive training in preparation for continued marine science education. This course will include a review of the theory and practical application of diving through the use of scuba diving skills and research methodology as applied to the fields of marine biology, physical oceanography and marine archaeology.

**Credits:** 3

**Class Hours:** 3

**Prerequisites:**

MARN 1201: Introduction to Marine Ecology

EDUC1002: Physical Development (Swimming)

