

Welcome to the

Math & Science Department

ST. JOHN'S COLLEGE
JUNIOR COLLEGE

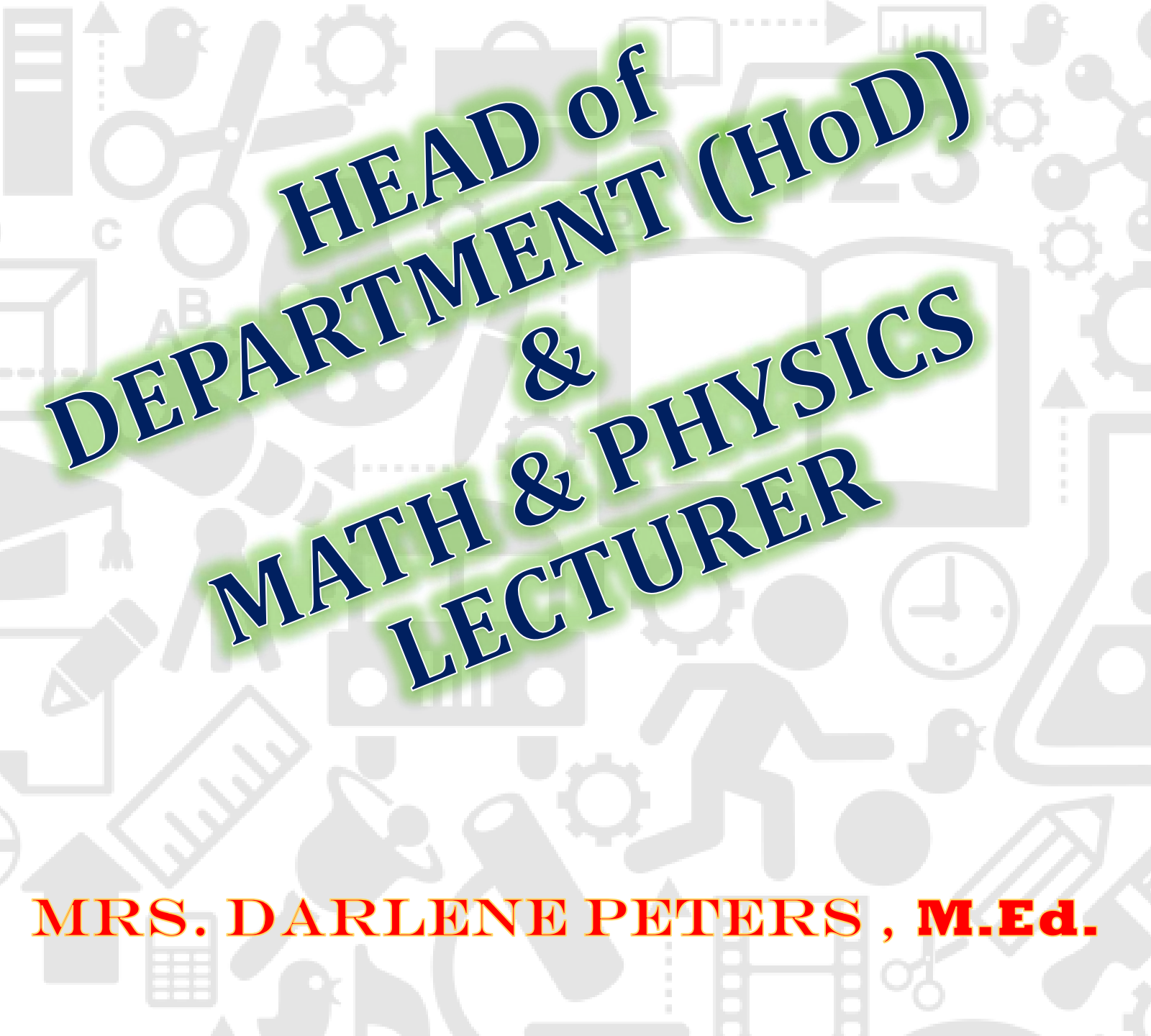


MEETING'S AGENDA

- 1. Opening Prayer**
- 2. Welcome**
- 3. Program Review**
- 4. Attendance Policies**
- 5. Academic-Changes Applications**
- 6. Service Learning**
- 7. Program Briefings**
- 8. Choosing a Program & Initial enrollments**
- 9. Q & A Segment**
- 10. Final Announcements**
- 11. Thank You**

MATH & SCIENCE DEPARTMENT FACULTY & STAFF





**HEAD of
DEPARTMENT (HoD)
&
MATH & PHYSICS
LECTURER**

MRS. DARLENE PETERS , M.Ed.



SJC JC MATH LECTURERS

MS. IRMA BRICENIO , **M.Ed.**



MR. AMIR JUAREZ . **M.Sc.**



MR. JASON (PO-WED) HSU **M.Ed.**



MR. DARSI SALAZAR . **B.Sc.**

SJC JC BIOLOGY LECTURERS

MS. AISHA LEIVA , B.Sc.



**MS. NERISSA
GUERRA , M.Sc.**



SJC JC CHEMISTRY LECTURER

MS. LUCERO COB, M.Ed.



SJC JC
BIO/CHE/MTH
LECTURER



MS. LIANY AYUSO M.Sc.

MS. GERALDINE
GODOY M.Sc.



SJC JC
BIO/SCI LECTURER



SJC JC SCIENCE LAB ASSISTANT

MR. RASHEED GARDINER

As. Sc.

SJC ETHOS STATEMENT

*Choosing to come to St. John's College means making a choice to join a **distinctive community**. As a **Jesuit and Catholic institution**, St. John's College places special emphasis on the **dignity and worth** of every person and the **love of truth**. Membership in this community carries with it **high expectations regarding** the ways in which each person will **act** both within and beyond the institution and its facilities.*

MATH & SCEINCE DEPARTMENT

MISSION STATEMENT

The Math & Science Department is a student-oriented department that introduces the students to the applications of principles in physics, chemistry, biology, mathematics, and environmental science. The mission of the Department is to present science as a rational and systematic observation, identification, description, experimental investigation, and theoretical explanation of natural phenomena despite the program enrolled in.

As a department dedicated to achieving excellence, we stress the importance of critical thinking, logical reasoning, and mathematical manipulations. Students are guided in developing their ability to ask and answer questions, and, enhance their current knowledge and technical skills in scientific inquiry approach, so as to design and execute scientific investigations and apparatuses. The faculty challenges the student to view science as an interdisciplinary study applicable to society and their professional and personal development.

PROGRAMS

• *Biology and Chemistry*

- Biology and Chemistry Major *(79 Credits)*
- Biology Major *(75 Credits)*
- Chemistry Major *(75 Credits)*

• *Math and Physics*

- Math Major *(72 Credits)*
- Math and Chemistry Major *(77 Credits)*
- Physics Major *(78 Credits)*



➤ *The CREDITS in RED is required for completion for graduation*

PROGRAMS

• *Interdisciplinary Science*

➤ *Students design their science degree . . .*

Choice A (73 credits)

- with Year 1 & Year 2 Options
- Year 1 – minimum of 25 credits
- Year 2 – minimum of 11 credits
- Math requirement is MTH103 (Intermediate Algebra)
- A combination of BIO/CHE and computer science courses
- *May be eligible for 2 Units of CAPE.
- MUST satisfy GENERAL CORES & ALL Pre-requisites.



PROGRAMS

• *Interdisciplinary Science*

Choice B (73 credits)

- with Year 1 & Year 2 Options
- Year 1 – minimum of 25 credits
- Year 2 – minimum of 11 credits
- A combination of ALL science major courses, Math major courses and computer science courses
- Math requirement is MTH105 (Algebra for Sciences)
- *May be eligible for 2 Units of CAPE.
- MUST satisfy GENERAL CORES & ALL Pre-requisites.



Interdisciplinary PROGRAM...

important to know

What is it?

- Fairly NEW Science Degree PROGRAM that covers more than one field of study in science.

Designed for:

- Students who have a strong background in the Science disciplines (Math, Bio, Chem, Physics, ENS, IT)
- Students who may have a career goal in mind that requires a unique combination of science/mathematics.
- Students who have not yet decided on a career path but know it will involve some area in science.
- Students who have a chosen career path in science and are trying to earn credit towards it when they apply to their universities of



GENERAL CORE COURSE

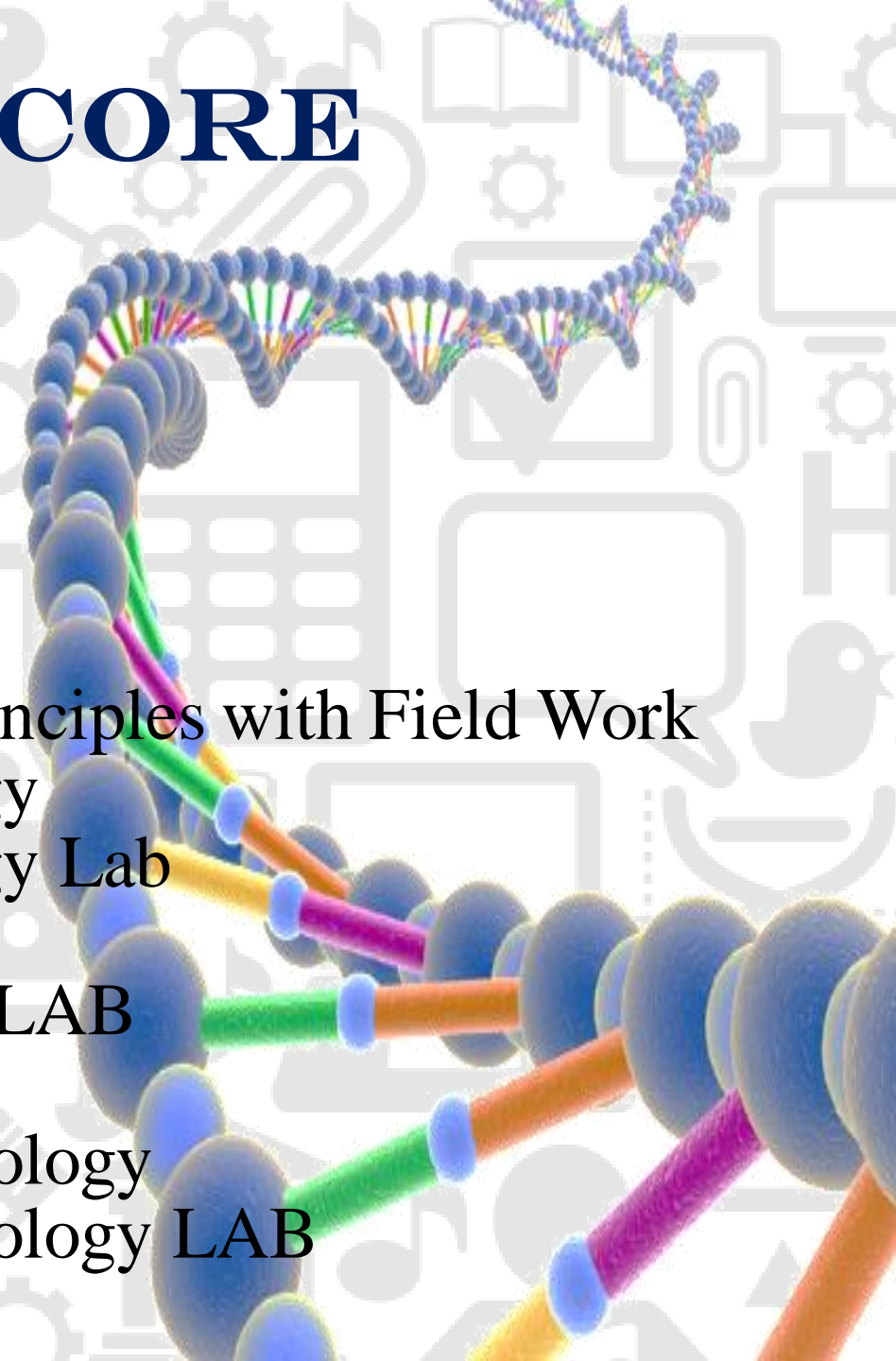
General Core Course *(37 credits minimum)*

- College Seminar - *(1 credit)*
- Computer Elective - *(3 credits)*
- English & Literature - *(9 credits)*
- Math - *(6 / 7 credits)*
- Philosophy - *(3 credits)*
- Theology - *(6 credits)*
- Social Science Elective - *(6 / 7 credits)*
- Language Elective - *(3 credits)*

PROFESSIONAL CORE

• *Biology*

| | |
|-----------|---|
| BIO 131 | Cellular Biology |
| BIO 131L | Cellular Biology LAB |
| CHEM 140 | Biochemistry |
| CHEM 140L | Biochemistry LAB |
| ENS 120 | Fundamental Ecological Principles with Field Work |
| BIO 240 | Plant Anatomy & Physiology |
| BIO 240L | Plant Anatomy & Physiology Lab |
| BIO 231 | Evolution and Biodiversity |
| BIO 231L | Evolution and Biodiversity LAB |
| BIO 232 | Genetics |
| BIO 241 | Human Anatomy and Physiology |
| BIO 241L | Human Anatomy and Physiology LAB |
| BIO 242 | Human Health and Disease |



PROFESSIONAL CORE

• *Biology And Chemistry*

BIO 131 Cellular Biology

BIO 131L Cellular Biology LAB

BIO 231 Evolution and Biodiversity

BIO 231L Evolution and Biodiversity LAB

BIO 232 Genetics

BIO 241 Human Anatomy and Physiology

BIO 241L Human Anatomy and Physiology
LAB

BIO 242 Human Health and Disease

CHE123 – CHE239 + MTH216

PROFESSIONAL CORE

• *Chemistry*

| | |
|-----------|---------------------------------|
| BIO 131 | Cellular Biology |
| BIO 131L | Cellular Biology LAB |
| CHE 129 | Principles of Chemistry II |
| CHE 129L | Principles of Chemistry II LAB |
| CHEM 140 | Biochemistry |
| CHEM 140L | Biochemistry LAB |
| CHE 136 | Fundamental Organic Chemistry |
| CHE 230 | Analytical Methods in Chemistry |
| CHE 234 | Organic Chemistry |
| CHE 234L | Organic Chemistry LAB |
| CHE 239 | Inorganic Chemistry |
| CHE 239L | Inorganic Chemistry LAB |



PROFESSIONAL CORE

• *Math and Chemistry*

| | |
|-----------|--|
| BIO 131 | Cellular Biology |
| BIO 131L | Cellular Biology LAB |
| CHE 129 | Principles of Chemistry II |
| CHE 129L | Principles of Chemistry II LAB |
| CHEM 140 | Biochemistry |
| CHEM 140L | Biochemistry LAB |
| CHE 136 | Fundamental Organic Chemistry |
| CHE 230 | Analytical Methods in Chemistry |
| CHE 234 | Organic Chemistry |
| CHE 234L | Organic Chemistry LAB |
| CHE 239 | Inorganic Chemistry |
| CHE 239L | Inorganic Chemistry LAB + MTH119,140,145,236 |



PROFESSIONAL CORE

• *Mathematics*

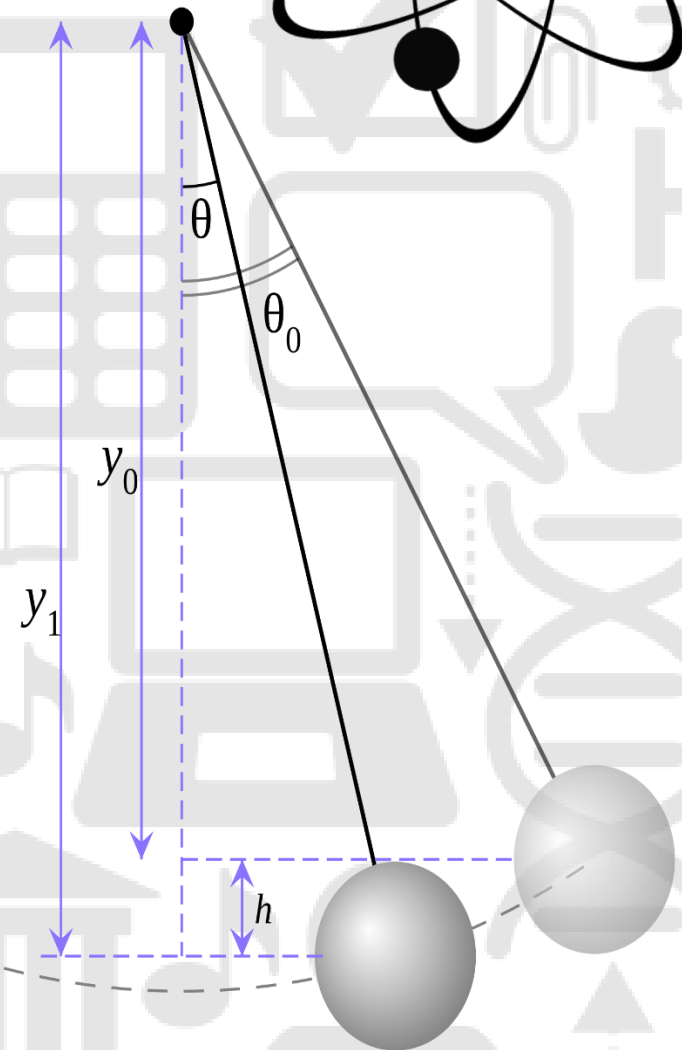
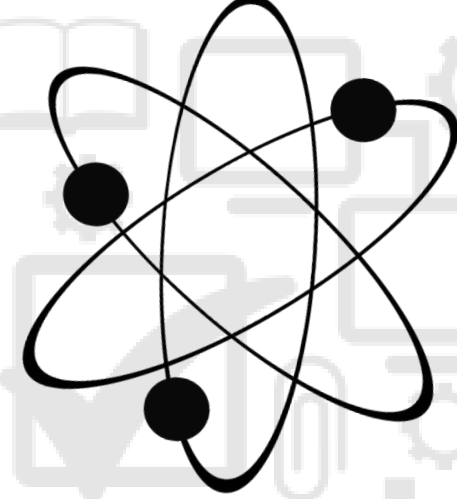
| | |
|---|---|
| CIS 125 | Principles of Programming I |
| CIS *** | CIS OPEN |
| MTH 115 | College Algebra |
| MTH 119 | Trigonometry |
| MTH 140 | Analytic Geometry |
| MTH 145 | Calculus I |
| MTH 236 | Calculus II |
| MTH 246 | Probability and Statistics |
| MTH 250 | Further Sequences and Mathematical Modeling |
| MTH 260 | Linear Algebra |
| SCI *** | SCI OPEN |
| OPEN ELECTIVE (Non-Science OPEN elective) | |



PROFESSIONAL CORE

• *Physics*

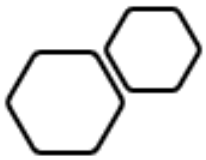
- CHE123 Principles of Chem I
- CHE123L Principles of Chem I Lab
- MTH 115 College Algebra
- MTH119 Trigonometry
- MTH140 Analytic Geometry
- MTH145 Calculus I
- MTH236 Calculus II
- MTH246 Probability and Statistics
- PHY 116 Classical Mechanics for Scientists and Engineers
- PHY 116L Classical Mechanics for Scientists and Engineers LAB
- PHY 116R Classical Mechanics for Scientists and Engineers Recitation
- PHY 120 Introduction to Fluids, Materials and Thermodynamics
- PHY 130 Introduction to Analog and Digital Electronics
- PHY 130L Introduction to Analog and Digital Electronics LAB
- PHY216 Light, Waves and Oscillations
- PHY 216L Light, Waves and Oscillations LAB
- PHY226 Electromagnetism
- PHY 226L Electromagnetism LAB
- PHY236 Modern Physics
- PHY 236L Modern Physics LAB



PROFESSIONAL CORE

• *Interdisciplinary Science*

| | Year I Options (minimum of 25 credits) | Year 2 Options (minimum of 11 credits) |
|-------------------------|--|--|
| <u>Choice A</u> | BIO 131, BIO 131L, BIO 140, BIO 140L | BIO 231, BIO 231L, BIO 241, BIO 241L |
| With MTH 103 | CHE 123, CHE 123L, CHE 129, CHE 129L, CHE 136 | CHE 230, CHE 239, CHE 239L |
| | ENS 120, ENS 121, ENS 122 CIS 125, CIS 126, CIS 130, CIS 135 | ENS 212, ENS 217, ENS 216, ENS 221 CIS 233, CIS 240, CIS 283, CIS 285, CIS 286, CIS 288 |
| | CNT 125, CNT 135 | CNT 225, CNT 235, CNT 250 |
| | | |
| <u>Choice B</u> | BIO 131, BIO 131L, BIO 140, BIO 140L | BIO 231, BIO 231L, BIO 241, BIO 241L |
| With MTH 105 | CHE 123, CHE 123L, CHE 129, CHE 129L, CHE 136 ENS 120, ENS 121, ENS 122 | CHE 230, CHE 239, CHE 239L ENS 212, ENS 217, ENS 216, ENS 221 |
| | CIS 125, CIS 126, CIS 130, CIS 135 | CIS 233, CIS 240, CIS 283, CIS 285, CIS 286, CIS 288 |
| | CNT 125, CNT 135 | CNT 225, CNT 235, CNT 250 |
| | MTH 115, MTH 119, MTH 140, MTH 145 | MTH 236, MTH 245, MTH 250 |
| | PHY 116, PHY 116L | PHY 205, PHY 216, PHY 216L, PHY 226, PHY 226L, PHY 236, PHY 236L |



TOPICS TO HIGHLIGHT



**ACADEMIC BULLETIN
(IMPORTANCE &
INCLUSIONS)**



**THE ADVISOR &
ADVISING**



**REGISTRATION (COURSE
WITHDRAWAL VS.
ADD/DROP)**



**FULL-TIME STUDENTS
VS. PART-TIME
STUDENTS**



**REPORT CARDS
(MIDTERM VS. FINAL)**



ABACUS



**ATTENDANCE AND
LATENESS POLICIES**



**ACADEMIC
PROBATION**



LABS & LAB RULES



CAPE



Credit Load Guideline

➤ ***Full time:*** 18 - 20 credits per semester

➤ ***Part time:*** 12 - 14 credits per semester

➤ ***Probation:*** 12 credits per semester

ATTENDANCE POLICY

| # of Credits in Course | Verbal Absence Warning | Written Warning Using Absence Warning Form | Referral to the ADAA using Excessive Absence Warning Form |
|------------------------|------------------------|--|---|
| ONE | 1 | 2 | 3 |
| TWO | 2 | 3 | 4 |
| THREE | 3 | 4 | 5 |
| FOUR | 4 | 5 | 6 |

- Warning Slip are submitted to the Student & Associate Dean for Student Affairs.
- A student whose absences exceed 12% of all scheduled contact hours will not be permitted to return to class and will be referred immediately by the course instructor, using an “Excessive Absence” form, to the Dean, who may take one of the following actions:
 - Instruct the student to withdraw from the course
 - Reinstate the student to the class on conditions

ACADEMIC PROBATION

A student who is on academic probation means that:

- *the student's cumulative grade point average falls below 2.00;*

A student who is placed on academic probation will be required to do the following:

- 1. Meet with the Dean to discuss conditions for continued enrollment;*
- 2. Obtain permission from the Dean to add, drop, withdraw, or apply for incomplete grades or leave of absence from school.*
- 3. Limit the number of credits taken while on probation to twelve (12) for full-time students and six (6) for part-time students;*
- 4. Participate in the required number of workshops, courses, tutorials, or other academic initiatives aimed at improving study approaches;*
- 5. Meet other stipulated requirements at the discretion of the Dean.*

ELECTRONIC COMMUNICATION POLICY

Definition of an Electronic Communication

Electronic Communication is the passing of information from one individual to another using an electronic communication device. This may take the form, but not limited to, emailing, texting, instant messaging, facetimeing, web surfing, and video recording.

Use of an Electronic Communication Device

Use of an Electronic Communication Device implies any activity that requires the student to touch or look at the device, including making and receiving calls, sending text messages, playing games and consulting information displayed or stored in the memory.

Electronic Communication Device Use during Class Students

may not view or use an Electronic Communication Device during a class session unless such use has been authorized by the lecturer for a specific educational activity.

MAJOR EVENTS

MASS

CLUBS

FORUMS/LECTURES

COMMUNITY SERVICE

DEPARTMENT ACTIVITIES



IMPORTANT DATES

| EVENTS | DATES |
|---|-------------------------|
| ZOOM MEETING | May 11, 2023 @ 5:30pm |
| REQUEST CHANGE FOR PROGRAM | May 12 - 14, 2023 |
| CONFIRMATION DEADLINE | May 18, 2023 |
| SUBMISSION OF CERTIFIED COPIES OF DIPLOMA | June 8, 2023 |
| SUMMER SCHOOL REGISTRATION | June 6, 2023 |
| SUMMER SCHOOL PAYMENT DEADLINE | June 7, 2023 |
| SUMMER SESSION CLASSES | June 12 – July 21, 2023 |
| NEW STUDENT ORIENTATION & REGISTRATION | June 21 & June 22, 2023 |
| PAYMENT DEADLINE FOR SEMESTER 1 | June 30, 2023 |
| SEMESTER 1 CLASSES BEGIN | August 14, 2023 |

THE MATH & SCIENCE DEPARTMENT

@ WORK & PLAY







***THANKS FOR CHOOSING
THE MATH & SCIENCE DEPARTMENT***



***BUILD RELATIONSHIPS
SERVE WITH PRIDE
LEAD WITH CONFIDENCE &
INSPIRE LIVES!***