

D-GENERAL FOR NASS-LASU

My name is UROH EMMANUEL OLUWATOBI, I am the current General HOC for all 200L students in faculty of science, I have decided to rebroadcast this for all 100L students to utilize. I wish you success in your endeavors.

D-GENERAL will be contesting for a post in the coming faculty election, kindly support, vote and canvass

HEM 102 - General Chemistry II (3 units) (VOTE D-GENERAL FOR NASS-LASU)

Topics in different areas of chemistry

Nuclear Chemistry

Gas laws and Kinetic theory of gas

Introductory Thermochemistry

Chemical Kinetics and Equilibria

Introduction to Isolation

Puri_cation and Identi_cation of organic compounds

General Chemistry of functional groups

PHY 102 - General Physics II (3 units) (VOTE D-GENERAL FOR NASS-LASU)

Electric field, Magnetic field, Electromagnetism and Optics)

. Vector Algebra

. Electric force and electric field

. Electric flux and Gauss' law

. Electric potentials

. Capacitance and dielectric

. Ohm's law and DC circuits. Kirchoffs laws

Measurement of resistance and potential difference

The magnetic field, Lorentz force;

Biot-Savart and Ampere's laws

Magnetic field due to conductors

Faraday's law of electromagnetic induction

Modern Physics

General Optics: Reflection of light at a plane and curved surface;

Refraction and dispersion through prisms

Thin lens and its application in optical instruments

Abberation in lenses

Vision and defects

Physical Optics: Wave, nature of light, diffraction, interference and polarization of light; spectrometer

Types of waves, production and propagation of sound waves, resonance, doppler effect,other properties of sound waves.

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MAT 102 - General Mathematics II (3 units) (VOTE D-GENERAL FOR NASS-LASU)
(CALCULUS)

- _ Elementary function of real variables and their graphs
- _ Limits and idea of continuity
- _ The derivative as limit of rate of change
- _ Techniques of Differentiation
 - { Rate of change
 - { Product and quotient rules
 - { Function of a function
 - { Implicit functions
 - { Differentiation of trigonometric and inverse trig function
 - { Exponential and logarithmic differentiation
 - { Stationary values of simple functions, maxima and minima, point of inflexion and extreme curve sketching
- _ Integration as an inverse of differentiation
- _ Integration of simple and harder functions
- _ Integration by parts, and by substitution
- _ Definite integrals
- _ Applications to areas and volumes

MAT 162 - Introductory Statistics II (3 units) (VOTE D-GENERAL FOR NASS-LASU)
(PROBABILITY)

- _ Permutation and Combination
- _ Concepts and principles of probability
- _ Random variables
- _ Probability and distribution functions
- _ Probability distribution of discrete and continuous random variables
- _ Basic distributions: Binomial, geometric, poisson, normal and sampling distributions
- _ exploratory data analysis
- _ Expectations and moments of random variables

BIO 102 - Introduction Ecology (VOTE D-GENERAL FOR NASS-LASU)

- _ Definition of terms: Ecology, Environment, Habitats, Community, Ecosystem, Population, Biome Biosphere e.t.c
- _ Habitat Concept: Types, and Profiles of Terrestrial and aquatic habitats.
- _ Ecosystem concept: definition, types, characteristics and components;
- _ Food chains and food webs (simply treated).
- _ Pyramids of Energy and Number/Mass (simply illustrated)
- _ Practicals to include observation and description of habitat types and measurement of ecological factors, among others.

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ZOO 102 - Organization of the Mammalian body (VOTE D-GENERAL FOR NASS-LASU)

- _ The rat as a mammal: External features and adaptations to the environments.
- _ Anatomy and function: The skin, skeletal and muscular systems.
- _ Nutrition, Digestion and Absorption
- _ Gas Exchange and the Respiratory system.
- _ The cardiovascular system: The bills and lymph
- _ Nervous system, Reproduction, Homeostasis

BOT 102 - Flowering Plants: Forms and functions (VOTE D-GENERAL FOR NASS-LASU)

- _ An introduction to morphology, Anatomy, and their relationship to physiological processes of Angiosperms, seed, fruit formation and dormancy.
- _ Practical to include morphological descriptions; sectioning, staining, demonstration and observation of some vital physiological processes among others

CSC 120 - Computer as a Problem solving tool (VOTE D-GENERAL FOR NASS-LASU)

- _ Concept of Problem solving
- _ Problem solving steps i.e Problem identification (e.g. in Management, science and Engineering).
- _ Definition of users' needs/requirement
- _ Identification of solution models.
- _ Algorithm design, Coding and Test running, Implementation and documentation.
- _ Classes of problems.
- _ Effective approach to problem solving using computer programming tools i.e flowcharts, Algorithm design, decision table etc.
- _ The role of algorithm in problem solving process.
- _ Formulation of alternative solutions to problems and their computer models.
- _ Number systems and their representations, codes with detection and correction.

CSC 104 - Software Workshop (VOTE D-GENERAL FOR NASS-LASU)

- _ Programming language; Basic elements, data types, control structures and program design.
- _ Basic I/O concepts
- _ Arrays; procedures, functions and structured programming.
- _ Modules; Dynamic Memory Allocation
- _ Programming exercises using current version of FORTRAN language with emphasis on science application problems

CSC 132 - Principles Of Programming Languages I (VOTE D-GENERAL FOR NASS-LASU)

- _ Overview of programming languages.
- _ History of programming languages.
- _ Brief survey of programming paradigms (procedural languages, object-oriented languages, functional languages, declarative non-algorithmic languages, scripting languages)
- _ Study of the features of a common and popular programming language.
- _ Introduction to language translation.
- _ Comparison of interpreters and compilers.

PHY 104 - Experimental Physics II

- _ Experiments arising from the theory courses of Phy 102

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REBROADCASTED BY: D-GENERAL

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