

UNIT PRESCRIPTIONS

University Preparatory Certificate Level 3

ACC301 Introduction to basic accounting 1

Prerequisite: A pass in Year 11 examination or equivalent-some business or accounting knowledge from high school education is essential.

Semester 1: Offered on F-F mode

Semester 2: Not offered

This unit builds upon the knowledge learnt in Year 10 and Year 11 in high school. The unit introduces students to four strands of accounting including the nature of accounting, the accounting equation and the double-entry principle, financial accounting and accounting process, and accounting reporting.

ACC302 Introduction to basic accounting 2

Prerequisite: ACC301

Semester 1: Not offered

Semester 2: Offered on F-F mode

This unit introduces students to the following accounting process:

- (1) Analysis and interpretation of financial statements – This involves the calculation of ratios and percentages by conducting vertical, horizontal, and trend analysis. It also deals with the interpretation of the ratios calculated for sole proprietor businesses.
- (2) System for implementing the accounting process – This looks into the design of an effective accounting system that strengthens good internal control within a business or organization in terms of control over cash, accounts receivable, accounts payable, payroll, inventory, non-current assets, and data processing.

AGR301 Agriculture science I

Prerequisite: A pass in Year 11 examination or equivalent

Semester 1: Offered on F-F mode

Semester 2: Not offered

This unit introduces students to a wide range of aspects in agriculture study that aimed to develop their ability to apply a balanced approach to the study of agriculture about agriculture ecosystems, soils, plant production, and protection. Part of the learning requires students to conduct field practicals and laboratory sessions which are designed to help them develop relevant knowledge and skills that are essential to enhance plant production and protection.

AGR302 Agriculture science II

Prerequisite: A pass in Year 11 examination or equivalent

Semester 1: Not offered

Semester 2: Offered on F-F mode

This unit introduces students to the study of animal production. It defines basic concepts and provides foundational knowledge on various topics under the four main components which include, animal production, animal protection, farm structure and equipment, and farm economics and marketing. The aim of this unit is to help students develop strong foundational knowledge on these topics to support more in-depth study in the future. Part of the learning requires students to conduct field practicals and laboratory sessions which are designed to help them develop relevant knowledge and skills that are essential to enhance animal production and protection.

BIO301 Introduction to macro-molecular and process biology

Prerequisite: A pass in Year 11 examination or equivalent

Semester 1: Offered on F-F mode

Semester 2: Not offered

BIO301 introduces students to the study of basic organic molecules that are essential for life such as carbohydrates, lipids, proteins, and nucleic acids; and the cell concept as the basic unit for life. Major topics of study in this unit will include the links between the cell structures and various processes that occur in the cell such as enzyme activity, photosynthesis, cellular respiration; cell cycle and cell division and their significance; and the introduction into genetics and its application. The focus of this course is to promote the basic principles of biology and appreciate the complex nature of biological science and phenomena built from simple compounds and processes.

BIO302 Introduction to investigative biology

Prerequisite: A pass in Year 11 examination or equivalent

Semester 1: Not offered

Semester 2: Offered on F-F mode

Unit BIO302 introduces students to different biological forms and functions in both animals and plants. This includes the exchange of internal and external environment, nutrition and digestion, gas exchange, circulation, and human reproduction. Students will also study the reproduction of plants, both non-flowing and flowing plants, the uptake and transport of plant nutrients, and soil. The course links different biological forms and functions to the outside environment. As our environment continues to be threatened by various forces, most of which are caused by humans need to understand the facts about the environment is inevitable. Biosphere, organisms' behavioural and adaptations to the environment are studied with population, community structure, and its dynamics.

CHE301 Elementary chemistry

Prerequisite: A pass in Year 11 examination or equivalent

Semester 1: Offered on F-F mode

Semester 2: Not offered

This unit builds upon the chemistry knowledge learned in Year 10 and Year 11 and provides basic concepts on relevant knowledge studied. These include significant figures and measurement, atomic structures and bonding, moles and molar mass, empirical and molecular formulae, stoichiometry, structures and properties of substances, solubilities, and ion identification.

CHE302 Basic principles of chemistry

Prerequisite: A pass in Year 11 examination or equivalent

Semester 1: Not offered

Semester 2: Offered on F-F mode

This unit builds on the knowledge learnt in Year 11 high school education. It is designed to provide students avenues to apply the concepts they learned. Topics covered included, the uniqueness of carbon, hydrocarbon compounds nomenclatures and reactions, aldehydes, ketones and nomenclature with tests, alcohol, and reactions, carboxylic acids and esters, kinetics, rate of reaction and its effects, the law of thermodynamics, enthalpy, dynamic equilibrium, Bronsted-lowry and Lewis acids and bases, dissociation constant, pH calculations and oxidation and reduction.

CSC301 Introduction to computing studies

Prerequisite: Nil

Semester 1: Offered on F-F mode

Semester 2: Not offered

This unit covers the basic computing concepts both in theory and practice. Theory topics cover the introduction of the computer as an electronic machine designed for the processing and storage of data. The practical component covers the usage of application software and information processing data. Students will learn and perform activities that centered on information processing data, computer hardware, and application software. By storing and processing information on a computer system, students can perform a function more quickly and efficiently.

CSC302 Fundamentals of computing studies

Prerequisite: Nil

Semester 1: Not offered

Semester 2: Offered on F-F mode

This unit introduces students to the fundamentals of computing studies. It covers a range of topics which include, the general scope of computers, computer viruses and security, basic computer maintenance, introduction to the internet, the World Wide Web (WWW), computer networks, wired (LAN) & wireless communication, privacy, and crime, and network security issues. It is anticipated that upon completing this study, students will be able to interact effectively with the computer system, know the uses of basic components of computers, manage computer system configuration, understand computer network and how it works, including information communication, local area network, and wide area network, and finally understand basic things about the internet and their usage.

ECO301 The market, money, and international trade

Prerequisite: A pass in Year 11 examination or equivalent
Semester 1: Offered on F-F mode Semester 2: Not offered

This unit builds upon the knowledge learnt in Year 10 and Year 11 high school education. It is designed to help students develop and acquire foundational knowledge and skills on various macroeconomic topics including economics models, demand and supply modes, fundamental concepts of scarcity, choice, and factors of production, and other economic factors.

ECO302 The circular flow model, government goals, and balance of payments

Prerequisite: ECO301
Semester 1: Not offered Semester 2: Offered on F-F mode

This unit is designed to help students develop and acquire broader knowledge and understanding on the subject of economics at the macro level. Topics covered in this unit include the circular flow of income model, business cycle, aggregate demand and supply, goals of government, and balance of payments accounts. Students will be guided on how to use the circular flow of income model to explore the economy as a system of real and monetary connections between five key sectors. Current data and trends will be analysed to evaluate the implications for the Solomon Islands economy.

ELL301 Comprehension, essay writing, registers, and grammar

Prerequisite: A pass in Year 11 examination or equivalent
Semester 1: Offered on F-F mode Semester 2: Not offered

This unit introduces learners to the skills and techniques of comprehending written texts, how to identify the main idea in a text, and summarise the gist of the passage. Furthermore, learners will also study and apply the structure and organization of ideas in an expository essay, as well as sentence structuring and paragraphing. Learners will be given grammatical exercises to develop their ability to understand texts, and to remedy general persistent and pervasive errors in applied English language. Furthermore, this unit will introduce students to different styles of writing, including discourse and structural features, and grammar that are specific to each one of these styles of writing. The lessons are interactive and highly practical-skilled based.

ELL302 Short stories and novels

Prerequisite: Nil
Semester 1: Not offered Semester 2: Offered on F-F mode

In this unit, students will study short stories and a novel. Primarily, literature is meant to be read for pleasure and therefore the works should be read in that spirit. Subsequently, we will look at the craft of the writers to understand how they create interest, draw up some unforgettable characters and leave us with some valuable insights into human character and societies. The lessons are interactive and students will be encouraged to share their insights and viewpoints.

GEO301 Physical Geography 1

Prerequisite: Nil
Semester 1: Offered on F-F mode Semester 2: Not offered

This unit is the first of the two foundational units on the study of physical geography. It is designed to help students develop solid basic knowledge and understanding of various aspects and theories of physical geography. Topics covered include the nature and perspectives of geography, spatial patterns and mapping, earth environment and systems, the hydrologic cycle, atmospheric temperature, air masses and weathering system, coastal process, landforms, and biogeography processes.

GEO302 Human Geography 1

Prerequisite: Nil
Semester 1: Not offered Semester 2: Offered on F-F mode

This unit is the first of the two foundational units on the study of human geography. It is designed to help students develop solid basic knowledge and understanding of various aspects and theories of human geography. Topics covered include, the roots and meaning of culture, population and migration processes and effects, agriculture and rural land use, economic geography, economic development and change, and human effects on the environment.

HEC301 Food and nutrition fundamentals

Prerequisite: A pass in Year 11 Home Economics examination or equivalent
Semester 1: Offered on F-F mode Semester 2: Not offered

Through the study of this unit, learners will explore foods that are available locally in the Solomon Islands. It is designed to help learners develop knowledge, skills, and attitudes about these foods and appropriately apply them to improve and/or enhance their nutritional status, including that of their families, and communities. Topics covered in this unit include; Food nutrients, traditional staples, cereal grains, cereal products, and starches, fruits and vegetables, eggs, seafood, meat, raising agents, food labelling, convenience foods, and junk foods.

HEC302 Clothing design and textile studies

Prerequisite: A pass in Year 11 examination or equivalent
Semester 1: Not offered Semester 2: Offered on F-F mode

This unit introduces students to the fundamental knowledge and skills of clothing and textiles studies. Through the study of this unit, learners will explore, identify, and classify different fibres used for clothing and other household textiles. Learners will also be introduced to the clothing room, the equipment and safety rules and procedures. The practical component is designed to help learners learn the step-by-step processes of garment constructions through product development and evaluation.

MTH301 Basic algebra & trigonometry

Prerequisite: A pass in Year 11 examination or equivalent
Semester 1: Offered on F-F mode Semester 2: Not offered

This unit offers the contents in trigonometry, coordinate geometry, algebra, and numbers. It will cover trigonometric ratios, identity proof, Measurements and circular functions, etc. and distance, lines, gradients, midpoints, circles, functions, domain, range, sketching, linear inequalities, quadratic equations, arithmetic, geometric and sigma notation. The course will then cover their applications to real-life situations.

MTH302 Basic calculus and statistics

Prerequisite: A pass in Year 11 examination or equivalent
Semester 1: Not offered Semester 2: Offered on F-F mode

This course offers skills and knowledge in data analysis, normal distribution, sets and operations on probability and introduction to differentiation and integration, logarithm, and exponentials functions. This will include collecting, organizing, and representing data, calculation of central measure and standard deviation, normal distribution, etc. sets theory, operations on probability, limits and derived formula, techniques of differentiation (power/ product rule), indefinite, definite integrations and applications, and exponential and logarithm functions etc.... . It will also emphasis the use of excel and other free software to analyse real data.

MTH303 Basic mathematics for social sciences

Prerequisite: A pass in Year 11 examination or equivalent
Semester 1: Offered on F-F mode Semester 2: Not offered

This unit is designed to help students develop and acquire foundational knowledge on various mathematical and statistic concepts to enhance their understanding to cope with arts-related subjects. Topics covered in this unit include, exponential & surds, equations & inequalities, analytical geometry, finance, growth and decay, functions, trigonometry functions, and measurements and statistics.

MTH304 TBC

Prerequisite: MTH303
Semester 1: TBC Semester 2: TBC

PHY301 Physics for beginners 1

Prerequisite: A pass in Year 11 Physics examination or equivalent
Semester 1: Offered on F-F mode Semester 2: Not offered

This unit is an expansion of the knowledge learnt in Year 11. It is designed to help learners develop and acquire a strong understanding of some of the key concepts that are critical to mastering physics. Through the study of this unit, learners will be provided avenues to apply concepts they learned to various topics, including physical quantities and units, measurements, kinematics, forces, projectile and circular motions, momentum, gravitational field, energy, work and power, sound and light, and superposition.

PHY302 Physics for beginners II

Prerequisite: A pass in Year 11 examination or equivalent and PHY301
Semester 1: Not offered Semester 2: Offered on F-F mode

This unit builds on the physics concepts learnt in Year 11 high school education and is a continuation of PHY301. The unit is designed to help students develop strong foundational knowledge of physics content to prepare them for post-secondary studies. Topics covered in this unit include Ideal gases, heat and temperature, thermal properties of materials, charges, electric fields, capacitance, electricity, d.c. circuits, magnetic fields, magnetic induction, particles physics and communication.

HOW TO APPLY

There are 2 ways you can get the application forms:

1. Go to the SINU website www.sinu.edu.sb and download our application forms OR
2. You can collect a manual application form from the SINU SAS office at Kukum Campus, or visit the UPC office at Ranadi Campus and collect an application from the Executive Assistant Officer.
3. Fill out the application form and submit it with a certified copy of all documents indicated on the front page of the application.

OUR CONTACT

For more information (Please contact the following officers)

1. Director (UniPrep)
Telephone No: 42638 or 42600
Mobile No. 7948234 or +677 8553834
Email: Director.UniPrep@sinu.edu.sb or Naolah.Pitia@sinu.edu.sb
2. Executive Assistant (UniPrep)
Telephone No. 42638 or 42600

*****Education is a Human Right—Your Education Need is our Priority*****