



**SJCJC PLACEMENT EXAMS
LANDIVAR CAMPUS
MARCH 22, 2024
GUIDELINES & TOPICS**

FOR AUGUST 2024 APPLICANTS:

SJCJC uses the ATLIB exams for placement in English and Math courses upon admission. The college therefore strongly recommends that you take the exams as a part of its admission procedures. Students who do not take the ATLIB examinations will be required to take the SJCJC Placement Exams for a fee of \$30, payable at the SJC Finance Office only by March 15, 2024. **Please note that not taking either the ATLIB or SJCJC exams results in automatic placement in remedial English and Math courses at admission point.**

We now share with you relevant information about the SJCJC Placement Exams, should you be required to take them.

On exam day, kindly bring along the following items:

- Pencil/s appropriate for shading of multiple-choice answer sheets
- Pen/s for essay
- Photo ID (passport, social security card, high school ID, or driver's license)

Your photo ID will be checked by the exam room supervisor, who will not allow you to proceed with the exams without an ID. Furthermore, cell phones will need to be turned off and placed in your bag at front of the exam room; Smart watches are also not allowed.

MATH, INTERDISCIPLINARY SCIENCE, COMPUTER SCIENCE, AND PRE-ENGINEERING MAJORS

Applicants who indicate one of these tracks as their first program of choice on their SJCJC application are required to take a **mandatory MATH Placement Exam** on the scheduled exam date, regardless of whether the ATLIB Math examination has been taken.

BIOLOGY/CHEMISTRY, INTERDISCIPLINARY SCIENCE, PRE-NURSING, AND PRE-ENGINEERING MAJORS

Applicants who indicate one of these tracks as their first program of choice on their SJCJC application are required to take a **mandatory Chemistry Placement Exam** on the scheduled exam date.

In closing, we provide you with guidelines and topics to assist your March 22nd exam preparations and encourage you to contact the Office of Admissions and Enrollment at 223-3731 or by email at admissions@jc.sjc.edu.bz with any questions you may have.

Sincerely,

Lydia McCoy
Director of Admissions and Enrollment, SJC

ENGLISH PLACEMENT EXAM (8:00 am – 9:30 am)

The exam will consist of **TWO** sections as follows:

PART I

This section assesses students' ability to derive meaning from a range of reading passages and to determine the meaning of words and phrases in short and extended contexts. The section consists of the following content domains:

- Synonyms
- Sentence Completion
- Equivalent Sentences
- Rhetoric
- Vocabulary
- Error Recognition

PART II

The second component will require students to compose a 500 to 600-word essay based on given prompts. Students will write ONE essay based on a single, selected prompt. The essay will be scored using the following criteria:

- Purpose and Focus
- Organization and Structure
- Development and Support
- Sentence Variety and Style
- Grammar, Mechanical Conventions and Spelling
- Critical Thinking

MATH PLACEMENT EXAM (9:45 am – 10:45 am)

The exam will consist of 40 multiple-choice questions to be answered in 60 minutes. A calculator **WILL** be allowed for this exam. Below is a list of review topics to assist your preparation:

Unit 1 - Number Theory

- Real number system; classification of numbers
- Properties of real numbers
- Order of arithmetic operations and rules of sign
- Finding LCM and GCF of real numbers
- Operations with positive integers
- Fractions and decimals

Unit 2 - Directed Numbers

- Further operations with integers, fractions, and decimals
- Complex fractions

Unit 3 - Algebra

- Introduction to terminology and notation
- Operations with algebraic expressions (addition and subtraction)
- Laws of exponents
- Multiplication and division of algebraic expressions

Unit 4 - Factoring

- Common monomials
- Special products

Unit 5 - Algebraic Fractions

- LCM and GCF of algebraic expressions
- Complex algebraic fractions
- Stating domain

Unit 6 - Graphing

- Ordered pairs
- Linear functions and their graphs
- Standard and slope intercept forms
- Equations and their solutions graphically

CHEMISTRY PLACEMENT EXAM (11:00 am – 12:00 noon)

The exam consists of 40 multiple choice questions to be answered in 60 minutes. A calculator **WILL** be allowed for this exam, and a copy of the Periodic Table will be provided to you.

Below is the list of review topics in preparation for the exam:

- Mole concept
 - Stoichiometry
 - Molar mass
 - Moles to mass & moles to particles
- Formulae of ionic and covalent compounds
 - Writing chemical formulas
 - Writing the name of compounds
- Balancing chemical equations and types of chemical equations
- Redox Reactions
 - Oxidation numbers
 - Oxidation and reduction
- Sub-atomic particles and isotopes
- States of matter and classification of matter

- Periodic table
 - Periodic trends
 - How to use a periodic table
- Properties of metals and ionic compounds
- Solubility values and activity series
- Physical and chemical properties and changes
- Acids and bases
- Separation of mixtures
- Experimental techniques and laboratory apparatus
- Net ionic equations