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Sam Sharpe Teachers' College has over forty (40) years of extensive experience in teacher training. We pride ourselves on producing high quality teachers who are equipped to meet the needs of every learner. Our programmes equip our graduates with new methodologies and technologies that are supported by cutting-edge local and international research.



Sam Sharpe Teachers' College

P.O. Box 40, Granville, Montego Bay Jamaica W.I.

Undergraduate Prospectus

Mathematics and Science



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Built by the Government of Jamaica under the World Bank II programme, Sam Sharpe Teachers' College began operations on September 29, 1975. Sam Sharpe Teachers' College offers baccalaureate degrees in education in partnership with the University of the West Indies and graduate degrees in education with Central Connecticut State University.



Sam Sharpe Teachers' College is committed to providing a consistently high standard of training to produce lifelong learning professionals dedicated to rendering altruistic service and to be formidable change agents in the global environment. These professionals will be:

- Committed individuals empowered with the relevant knowledge, skills, values, attitude and pedagogy to be effective in their various fields;
- Self-directed and able to cope with the challenges concomitant with national and global trends;
- Devoted to enhancing the total development of their students;
- Empowered to be nurturers of the human and natural resources that would promote sustainable development.



To be recognized as the premier institution of higher learning, offering superior training and education to young professionals in our commitment to satisfying the needs and aspirations of this dynamic society through research, service and the demonstration of excellence.



BACHELOR OF EDUCATION DEGREE (B.ED.) Mathematics & Science

Through the Faculty of Humanities and Education at the University of the West Indies, the College offers the Bachelor of Education Degree with a major in Mathematics and Science (Biology Major). Mathematics is included in the core curriculum of primary and secondary programmes because it is recognized that by doing and learning mathematics, students develop the kinds of skills that they need to function effectively in their personal and working lives. Key developments in mathematics education at this time are promotion of interactive mathematics, an increased emphasis on problem-solving and investigations, and the use of technology in the classroom. This Secondary Programme prepares students to teach to adolescents between the ages of 12 and 17, that is, from Grades 7 to 11 or Forms 1 to 5.

The Science option is designed to meet the needs of the teacher and other qualified educators who want to pursue first degree in Education with strong subject content. In developing countries such as those in the Caribbean, there is an urgent need for citizens to appreciate how much the principles of science can be applied in many aspects of their daily activities.

ADMISSION REQUIREMENTS

- Five (5) CXC/CSEC subjects including Mathematics, English Language (General Proficiency)

*N.B.: Preference will be given to applicants with more than five (5) passes inclusive of English Language and Mathematics. Applicants to the Bachelor of Education - Mathematics & Science (Biology) major must have Grade 1 passes in **Mathematics** and a **Physical Science** subject (Biology, Chemistry, Physics, Integrated Science, Human and Social Biology)*

PROGRAMME COURSES Mathematics & Science Education (Biology Major)

CORE COURSES & ELECTIVES

- Analytical Geometry
- Calculus 1
- Measurement
- Mechanics
- Linear Algebra
- College Algebra
- Pre-Calculus
- Discrete Mathematics
- Calculus 2
- Calculus 3
- Teaching Techniques in Mathematics Education
- Statistics & Probability 1
- Calculus 4
- Trigonometry
- Teaching Secondary School Mathematics
- Genetics
- Animal Diversity
- Introduction to Biology 1
- Biotechnology
- Secondary Science Methods
- Mathematics for Science Teachers
- Genetics
- Ecological Principles & The Environment
- The Fungi Kingdom
- Continuity & Change
- Biology of Microorganisms
- Introduction to Biology 2
- Health, Diseases & Lifestyle