

# BSc Industrial Engineering

## ABOUT ST. JOHN'S COLLEGE

St. John's College is a private, Jesuit, Catholic tertiary institution in Belize City, Belize. It is primarily an undergraduate, liberal arts institution that welcomes applications from men and women of character, ability, and motivation without prejudice to race, gender, religion, or socioeconomic status. Candidates must have earned diplomas or equivalent certification from a recognized tertiary institution and give evidence of capacity for continued personal growth and that of their community, sensitivity to the moral and spiritual dimensions of life, and the willingness to undertake rigorous academic work and personal development activities at the baccalaureate level.

## PROGRAM REQUIREMENTS

Students will complete a five-year program of study, as follows:

- Two years of coursework at the Associate Level, culminating in a degree in Pre-Engineering
- Three years of coursework at the Bachelor Degree level, culminating in a degree in Industrial Engineering

Coursework will employ multiple modalities of instructional delivery. The program will also include general core curriculum that consists of the following:

- 12 credit hours of humanities and liberal arts electives
- 6 credit hours of social science electives
- 3 credit hours of research methods
- 3 credit hours of research capstone, internship, or immersion experience

All students will also be required to complete 40 hours of community service OR participate in a 0-credit 'Living the Mission' course to be eligible for the SJC baccalaureate degree.

## COST OF PROGRAM

Estimated cost of program per semester:

- Tuition Cost: \$300 per credit hour
- Administrative Fee: \$250 per semester

Other Special Fees will include:

- Lab fees and online/hybrid course fees
- Personal expenses for mandatory, scheduled Engineering Lab sessions at Universidad Rafael Landivar Campus in Guatemala City

## HOW TO APPLY

1. Complete and submit the SJC application form at [sjconnect.sjc.edu.bz/sjc](http://sjconnect.sjc.edu.bz/sjc).
2. Obtain a copy of each of the following:
  - birth certificate
  - social security card
  - certified copy of your Associate Degree (stamped and signed by a Justice of the Peace)
3. Submit TWO letters of recommendation from professional contacts that reference your potential to successfully complete your intended program of study.
4. Submit a word-processed personal statement of your career goal/s and anticipated contribution to your Belizean community.
5. Submit sealed, official transcripts from all post-secondary institutions you have attended.

Place all above in a manila envelope and submit to:

Office of Admissions and Enrollment

St. John's College

Princess Margaret Drive

Belize City



501-223-3731

admissions@sjc.edu.bz

Princess Margaret Drive  
Belize City, Belize

[www.sjc.edu.bz](http://www.sjc.edu.bz)

Application Portal:  
[sjconnect.sjc.edu.bz/sjc](http://sjconnect.sjc.edu.bz/sjc)

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## PROGRAM BENEFITS

Build and direct infrastructural projects in general that are more marketable, taking advantage of using available resources in more efficient ways. Prepare for careers in planning, supervision, design, operation, inspection and administration of private and public sector installations and construction of highways, structures, and hydraulic systems.

## REQUIRED COURSES\*

### Associate Degree Level

- Intro to Civil Engineering
- Mathematics I & II
- Chemistry I & II
- Calculus I, II & III
- Engineering Drawing
- Physics I, II & III
- Intro to Programming
- Metrology
- Computer-Assisted Drawing
- Probability and Statistics
- Quality Control
- Science of Materials
- Statistics
- Engineering Methods I
- Numerical Methods

### Bachelor's Degree Level

- Dynamics
- Differential Equations
- Electrical Engineering I
- Mechanics of Fluids
- Materials Resistance I
- Fundamentals of Economics
- Engineering and Sustainable Development
- Inferential Statistics
- Cost Engineering
- Engineering Methods II
- Manufacturing Processes
- Investigation of Operations I & II
- Hydraulic Machines and Pneumatics
- Productions and Operations I & II Thermodynamics
- Organizational Behavior
- Project (Gestion)
- Fundamentals of Administration and Financial Analysis
- Engineering of Plants
- Economical Engineering
- Industrial Safety
- Formulation and Evaluation of Engineering Projects
- Modeling and Simulation
- Planning and Strategic Control
- Investigation of Markets
- Industrial Engineering Project I & II
- Strategy of Production and Operations
- Logistics
- Comprehensive Evaluation Seminar
- Graduation Work Seminar

\*Subject to Change



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OF JESUIT UNIVERSITIES