Collect the application form. The annual application period is March–May. Forms can be collected at the Antigua State College Golden Groove Campus during working hours.

**Application fee $60.**

All Applicants will be required to submit a 200 word essay on their reason for pursuing this course of study.

Before being offered a place, applicants will be short-listed and may be contacted by phone and/or email to attend an interview.

**Deadline for the submission of application forms is the last working day in May.**

Applicants will receive a letter stating whether or not you are offered a place.

“Engineering Problems are under-defined; there are many solutions, good, bad, and indifferent. The art is to arrive at a good solution. This is a creative activity, involving imagination, intuition and deliberate choice.” Ove Arup

**PROGRAM OVERVIEW**

The Engineering Department at the Antigua State College comprises of two sections representing a dual background of theory/practical engineering discipline.

The Technical Studies (Industrial Technology) Section focuses on the theoretical/design aspect of engineering preparing students for further study at University Level. Students in this section will pursue CXC CAPE Associate Degrees.

The BTEC (Engineering) Section, as its name suggests, will focus on the practical and technical character of the discipline, giving the students strong vocational training. Students in this section will be prepared for employment and entrepreneurship but the accredited BTEC qualification they will receive, will not prohibit them from further learning.

(see Entry Requirements)

- Technical Studies (Industrial Technology)
- BTEC Engineering

**STUDENTS WHO ARE SUCCESSFUL ARE AWARDED A COLLEGE DIPLOMA AND AN ACCREDITED DIPLOMA.**

Department of Engineering and Construction

Antigua State College, P.O. Box 193, Golden Grove,

Antigua

Phone 268 462 1434
Fax 268 460 9476

Email statecollege@candw.ag
**BTEC (ENGINEERING)**

Students in this section will pursue BTEC accredited vocational diplomas in five disciplines: Civil Engineering, Vehicle Technology, Electrical and Electronics Engineering, Building Services Engineering and Mechanical Engineering.

**CIVIL ENGINEERING**

This is a two-year course which covers the theory of structures, mechanics of structures, construction technologies and methods, design of structures, detailing of building components, building codes, health and safety, among other topics.

**VEHICLE TECHNOLOGY**

This is a two-year course leading to certification in Motor Vehicle Engineering and Repair. This course is theoretical and practical based with a fundamental understanding of vehicle principles and applications.

**ELECTRICAL AND ELECTRONICS ENGINEERING**

This is a two-year course of theoretical and practical studies. The focus is on giving students fundamental understanding of electrical and electronic principles and applications.

**MECHANICAL ENGINEERING**

This is a two-year course which covers the theoretical and practical components including bench fitting, workshop practices, projects and machine work.

**BUILDING SERVICES ENGINEERING**

(Refrigeration, Ventilation Design and Control Systems)

A two year theoretical and practical course in the principles of installation, design and service of the main types of building servicing equipment. The program deals with ventilation and cooling systems in buildings, and how to design these systems in a safe and sustainable manner.

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**Technical Studies (Industrial Technology)**

Students in this section can pursue a CXC CAPE Associate Degree in Industrial Technology.

**One Unit Subjects:**
- Caribbean Studies,
- Communication Studies
- Integrated Mathematics

**Two Unit Subjects:**
- Building and Mechanical Engineering Drawing
- Electrical and Electronic Technology

**Plus:**
- 1 Elective Unit Recommended
  - Applied Mathematics (Unit 1)
  - Information Technology (Unit 1)
- Safer Building (Compulsory)

Some of the Engineering Practice subjects available:
- Computer Aided Drafting and Design
- Engineering Project
- Science and Materials
- Health, Safety and Welfare
- Sustainable Construction

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**Entry Requirements**

**BTEC (Engineering)**

Persons interested in entering the Engineering Department should have at least 5 CXC, (CSEC General Proficiency) passes including:
- Mathematics and English
- And any THREE of the following:
  - Physics, Integrated Science
  - Building Technology, Technical Drawing,
  - Information Technology,
  - Mechanical Technology, Electrical Technology

**Technical Studies (Industrial Technology) CAPE Associate Degree**

Compulsory CXC passes in:
- Mathematics, English, Technical Drawing, (or Building Technology), Electrical Technology
- And TWO of the following:
  - Physics
  - Mechanical Technology
  - Information Technology