Aerospace Studies Coordinator
Indooroopilly State High School
PO Box 61
INDOOROOPILLY QLD 4068

"Aerospace Studies is awesome because the type of knowledge is different to any other subject."

Russell, Year 12

"Aerospace opens pathways to a career in Aviation."

Tommy, Year 12
**What is Aerospace Studies**

Indooroopilly SHS students seeking a career in aerospace have the opportunity to step out of the classroom and onto the tarmac.

**Why study Aerospace?**

Aerospace Studies will provide the knowledge, concepts and basic skills that our aerospace industries believe are essential for people entering into their workforce.

**Course Outline**

The subject covers a range of aerospace careers including engineering, administration, maintenance, flight crew, air traffic control, cabin crew, security and emergency services.

**Topics of study include:**

- Aeronautics and Astronautics
  - Basic Aeronautical Knowledge
  - Aircraft Systems
  - Meteorology
  - History of Aviation and Flight
- Safety Management Systems
  - Safety Awareness
  - Quality Concepts
  - Risk Management
  - Regulations
  - Legislation
  - Policies and associated procedures
- Business of Aviation
  - Management principles of aviation and aerospace industries
  - Human Resources management
  - Structures of aviation and aerospace industries

This subject will count towards a student’s OP and the Queensland Certificate of Education.

**Learning Experiences**

A substantial period of learning time will be spent using laptop computers conducting research. Students also have access to a flight simulator and an Unmanned Aerial Vehicle simulator as well. Excursions are conducted to Archerfield Airport, Brisbane Airport and Amberley RAAF Base. Students will be offered a Trial Introductory Flight at one of the flying schools during the first semester. They also are able to engage in the Australian Youth Rocketry Challenge and the Unmanned Aerial Vehicle Challenge.

**Preferred Pre-Requisites**

None

**Assessment**

Students will be required to complete two or three assessment pieces per semester. Items may include an assignment or project, an oral or seminar and an exam.

**Future Options**

This subject prepares students to enter careers in the aerospace industries. The school has direct links with Aviation Australia at Brisbane Airport and ATAE at Archerfield Airport for students interested in becoming flight attendants or aircraft maintenance engineers. We also have links with flying schools at Archerfield Airport for students interested in becoming pilots and with the University of Queensland for students interested in direct entry into Engineering.