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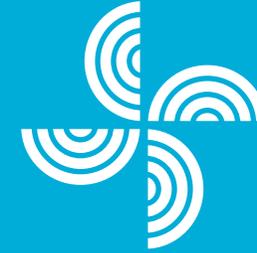
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Mid North
Christian
College



Aviation Studies

On Eagles Wings



Mid North
Christian
College

Hope in
the Living
God

Aviation Studies at Mid North Christian College

Since 2006 Mid North Christian College has received financial support from Sir Ross and Sir Keith Smith Fund. This fund was set up for "advancement in the State of South Australia for the science of aeronautic education". At MNCC, funding is allocated towards accommodation, pilot training, engineering equipment and materials. The generous financial contribution makes it possible for MNCC to offer aspiring students the opportunity to participate in our Aviation course.



THE SIR ROSS & SIR KEITH SMITH FUND

Sir Ross and Sir Keith Smith

Sir Ross Smith was born in Adelaide in 1892. In World War I he served in the Australian Light Horse at Gallipoli and in 1916 he transferred to the Australian Flying Corps. In a distinguished career he was awarded the M.C., D.F.C and A.F.C. In 1922 Sir Ross Smith was killed in a tragic accident while flying a Vickers Viking in preparation for an around-the-world flight.

Sir Keith Smith was born in Adelaide in 1890 and became a pilot when he joined the Royal Flying Corps in Britain in 1914. After the war and their historic England to Australia flight in 1919, Sir Keith became the Vicker's manufacturing company's representative in Australia and subsequently a director of several airlines and other public companies. Sir Keith died in 1955.



Aviation Studies Stage 1: Cross Disciplinary Studies: Local Program

The Aviation Studies Program is a course for students who desire to experience Aviation first hand. Students may have an emerging interest in an aviation area or be dedicated 'plane spotters' already! Aviation Studies will help them see the potential in themselves and aviation. This may lead to a career or life-long interest recreationally. Students gain valuable insight into the aviation industry and the vast array of related areas. The course is intended to be both challenging and inspiring.

Aviation Studies focuses on pilot training, drones and mechanical engineering pathways. Accruing 40 SACE credits over two years, students in Years 10 and 11 attend once per term (4 visits per year) for a week of intensive learning.

Students complete 8 hours of inflight pilot training towards a Recreational Pilot Certificate (RPC) and several hours of private drone flying. The engineering component is based on the National Training Modules, providing students with an understanding of the skill and high standards demanded by the aviation industry.

Areas of Study

Flight Training

Practical flight instruction delivered by a qualified instructor in a Jabiru j-160 Ultralight aircraft.

Aviation Engineering

- Sheet metal fabrication techniques required in restoring the Aero AE45 Aircraft
- Aircraft Engines
- Aircraft maintenance requirements
- Composite materials construction techniques required to build a Lancair Aircraft

Drone Operations

- Theory requirements for safe recreational drone operations
- Practical flying skills contributing to the CASA Remote Pilots Licence (RePL).

Basic Aeronautical Knowledge

Aviation Theory is based on the Basic Aeronautical Knowledge and requirements for a RPC. Supporting both inflight and RPA expanding most areas to reflect the diversity and breadth of real world aeronautical development. In addition it finds practical application through four balsa wood construction tasks, three of which are scratch built gliders of increasing size and complexity. Through these tasks, students experience the satisfaction of seeing their learning and handiwork inflight.

1st Year study areas

- Principles of Flight
- Flight Manoeuvres
- Engines
- Engine Support Systems
- Aircraft Support Systems

2nd Year study areas

- Aviation Radio Certificate
- Air Legislation
- Human Factors
- Developing Airmanship

