



# Summer BSA Merit Badge Workshops

## American Heritage Merit Badge

Our collection of warbirds represents the heritage of the American people that fought to protect the rights outlined in the Constitution. Meet veterans that fought for those rights and hear their stories, share your own family's past, learn about local historic places and the events that happened there, discuss how history is depicted in music of wartime eras, and investigate the meaning of the Declaration of Independence as well as other symbols of the nation and the importance to you. Requirements: 1, 2ac, 3abc, 4ab, 5c, and 6. Req. 3 - some family discussion before the class.

- Price: \$60 per Scout. → Time: 10:00 am – 3:00 pm.
- Summer dates: July 28 & 29 (Thurs & Fri). Attendance to both dates is required.

## Aviation Merit Badge

This three-hour workshop provides a hands-on learning experience including fundamentals of flight, aircraft design, and piloting. Scouts map and prepare a flight plan and conduct a pre-flight inspection on our Mooney Ovation aircraft. Then fly the route in the flight simulators in real time over accurate landscape to land at Scholes Airport in Galveston. Use the exhibits in the Flight Academy to demonstrate your knowledge of flight. Requirements: 1a-e, 2bd, 3b, 4c, and 5. No outside work required.

- Price: \$35 per Scout. → Time: 10:00 am – 1:00 pm.
- Summer Dates: June 22 (Wed), July 6 (Wed), August 8 (Mon), August 12 (Fri). Saturday classes available.

## Electronics Merit Badge

People skilled in electronics are vital to the aviation industry. Learn the nuts and bolts of electronic devices and how to build and repair them safely. Experiment with electronic components as you build circuits with different basic functions to see how they work and learn how the same functions are done in microscopic chips. Requirements: 1, 2ab, 3abc, 4bc, 5ab, 6. No outside work required.

- Price: \$45 per Scout. → Time: 10:00 am – 3:00 pm.
- Summer Dates: June 20 (Mon), June 24 (Fri), July 7 (Thurs), August 11 (Thurs). Saturday dates available.

## Engineering Merit Badge

Get your hands on engineering! After exploring multiple types of engineering, pick a major achievement in the field of aviation to research in our exhibits. Study the properties of materials by performing heat conductivity and energy transfer experiments, disassemble an engine down to the piston to see how the components make it work, and talk to an engineer to learn about the career opportunities for you. Requirements: 1, 2, 3, 4a-e, 5a, 6de, 7, 8, 9. No outside work required.

- Price: \$45 per Scout. → Time: 10:00 am – 3:00 pm.
- Summer Dates: June 21 (Tues), July 8 (Fri), July 25 (Mon). Saturday dates available.

## Weather Merit Badge

For local recreational flyers to international commercial carrier pilots, the weather is a challenge, must be understood, and always respected. Learn how to be safe in severe weather, why weather patterns can affect flight dynamics, how different types of weather are formed and how it's tracked to keep air travel moving. By knowing all the basics, you'll be able to make your own forecast. Requirements: 1, 2, 3, 4, 5, 6, 7, 8, 9b, 10, 11. No outside work required.

- Price: \$45 per Scout. → Time: 10:00 am – 3:00 pm.
- Summer Date: June 23 (Thurs), July 27 (Wed).

[Registration - lonestarflight.org/scouts](https://lonestarflight.org/scouts)