

Class Catalog

2026 STEM in Scouting @ APG

26ST1	Architecture (2015 version) Architecture is not just the special buildings like cathedrals, museums, or sports stadiums we read about or see on television; it is as normal as the homes, places of worship, schools, and shopping malls where we live, worship, work, learn, and play every day. However, architecture is more than just common shelter; building has always satisfied the human need to create something of meaning. Even the simplest form of architecture is a work of art that requires thought and planning. Linked Requirements: Architecture Notes and Prerequisites: Scouts MUST BRING A PERSONAL LAPTOP OR TABLET capable of connecting to the Internet via Wifi and lined paper, pencils, ruler	Added to catalog: 07-27-2026 2 periods
		
26ST2	Artificial Intelligence (AI) (2025 version) The Artificial Intelligence (AI) Merit Badge introduces Scouts to the fundamentals of AI and automation through hands-on activities and real-world examples. Scouts learn key terms, explore how AI and automation are used in daily life, school, and work, and examine ethical concerns like bias and privacy. They also investigate deepfakes, practice communicating effectively with AI, and apply their knowledge through a project or teaching activity. Finally, Scouts explore career paths in AI by researching or interviewing professionals in the field. Linked Requirements: Artificial Intelligence (AI) Notes and Prerequisites: Scouts MUST BRING A PERSONAL LAPTOP OR TABLET and be age 15-18	Added to catalog: 07-27-2026 2 periods
		
26ST3	Aviation (2025 version) For most of history, people have dreamed of flying, imagining how it would feel to soar through the sky like an eagle or hover in midair like a hummingbird, to float on unseen currents, free of Earth's constant tug, able to travel great distances and to rise above any obstacle. Today, through aviation, we can not only join the birds but also fly farther, faster, and higher than they ever could. Linked Requirements: Aviation	Added to catalog: 07-27-2026 2 periods
		
26ST4	Chemistry (2025 version) Chemistry explores how substances react with each other, how they change, how certain forces connect molecules, and how molecules are made are all parts of chemistry. Stretch your imagination to envision molecules that cannot be seen-but can be proven to exist-and you become a chemist. Linked Requirements: Chemistry Notes and Prerequisites: Complete requirements: 5, 6 and 7	Added to catalog: 07-27-2026 2 periods
		
26ST5	Cybersecurity (2025 version) The Cybersecurity Merit Badge equips Scouts with essential knowledge and skills to navigate and protect the digital world. Scouts learn about online safety, ethical behavior, cyber threats, and how to defend against them using tools like firewalls, antivirus software, and strong passwords. They explore encryption, connected devices, and the risks of public Wi-Fi, while also practicing safe habits like updating software and backing up data. Through hands-on activities, Scouts investigate real-world cyber incidents, participate in cybersecurity challenges, and explore career opportunities in the field.	Added to catalog: 07-27-2026 2 periods
		

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Linked Requirements: Cybersecurity

Notes and Prerequisites: Scouts MUST BRING A PERSONAL LAPTOP OR TABLET capable of connecting to the Internet via Wifi and be age 15-18

26ST7



Drafting (2025 version)

Drafting is a highly refined form of drawing used to communicate ideas to engineers, architects, and craftspeople. In earning this badge, Scouts learn the importance of accuracy and simplicity in developing a drawing that shows precise details in a simple format.

Linked Requirements: Drafting

Notes and Prerequisites: Scouts MUST BRING A PERSONAL LAPTOP OR TABLET capable of connecting to the Internet via Wifi.

Complete requirements: 7 and 8 (may accomplish 7 on site)

Added to catalog:

07-27-2026

2 periods

26ST8



Electricity (2025 version)

Learn why electricity plays a significant role in the economy and how energy consumption impacts our daily lives with the Electricity Merit badge. Scouts will demonstrate how to respond to electrical emergencies, explain how a fuse blows or a circuit breaker trips, and complete an electrical home safety inspection. The Electricity Merit Badge is an excellent opportunity for Scouts to learn how to read an electric meter and determine their household's energy cost from meter readings.

Linked Requirements: Electricity

Notes and Prerequisites: Complete requirements: 2 and 7

Added to catalog:

07-27-2026

2 periods

26ST9



Energy (2025 version)

Saving, producing, and using energy wisely will be critical to America's future. If we are to leave future generations with a world in which they can live as well or better than we have, Scouts and other potential leaders of tomorrow must begin the hard work of understanding energy and the vital role it will play in the future.

Linked Requirements: Energy

Notes and Prerequisites: Complete requirements: 1a, 5 and 6

Added to catalog:

07-27-2026

2 periods

26ST10



Engineering (2024 version)

Engineers use both science and technology to turn ideas into reality, devising all sorts of things, ranging from a tiny, low-cost battery for your cell phone to a gigantic dam across the mighty Yangtze River in China.

Linked Requirements: Engineering

Notes and Prerequisites: 1, 2, 5 and 9

Added to catalog:

07-27-2026

2 periods

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26ST11	 Inventing (2023 version) Inventing involves finding technological solutions to real-world problems. Inventors understand the importance of inventing to society because they creatively think of ways to improve the lives of others. Explore the world of inventing through this new merit badge, and discover your inner inventiveness. Linked Requirements: Inventing Notes and Prerequisites: Complete requirements: 2b, 3c, 5, 6, and 7	Added to catalog: 07-27-2026 2 periods
26ST12	 Nuclear Science (2026 version) Nuclear science gives us a simple explanation of the natural world. The ultimate goal of nuclear science is to find out if there is one fundamental rule that explains how matter and forces interact. Earning the Nuclear Science merit badge is a chance for Scouts to learn about this exciting field at the cutting edge of science today. Linked Requirements: Nuclear Science	Added to catalog: 07-27-2026 2 periods
26ST13	 Programming (2026 version) Programming merit badge will take you "behind the screen" for a look at the complex codes that make digital devices useful and fun. Linked Requirements: Programming Notes and Prerequisites: Scouts MUST BRING A PERSONAL LAPTOP capable of connecting to the Internet via Wifi Complete requirements: 1a and 5. Instructor will email instructions for requirement 5.	Added to catalog: 07-27-2026 2 periods
26ST14	 Radio (2026 version) Radio is a way to send information, or communications, from one place to another. Broadcasting includes both one-way radio (a person hears the information but can't reply) as well as two-way radio (where the same person can both receive and send messages). Linked Requirements: Radio	Added to catalog: 07-27-2026 2 periods
26ST15	 Robotics (2026 version) Build your own working robot with the Robotics Merit Badge. Learn about the robotics industry, discover the different fields of robotics, explore the available career options in robotics, and design, build, program and test your own robot. Linked Requirements: Robotics Notes and Prerequisites: Complete requirements: 6b and 7	Added to catalog: 07-27-2026 2 periods
26ST16	 Signs, Signals, and Codes (2026 version) The Signs, Signals and Codes merit badge covers a number of the nonverbal ways we communicate: emergency signaling, Morse code, American Sign Language, braille, trail signs, sports officiating hand signals, traffic signs, secret codes and more. Linked Requirements: Signs, Signals, and Codes Notes and Prerequisites: Complete requirements: 5a, 5b and 10	Added to catalog: 07-27-2026 2 periods

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2026 STEM in Scouting @ APG

26ST17	Space Exploration (2026 version) Discover the why and how we explore space. Learn about current and historic space systems along with how they work. Design a future station to survive on other worlds. Gain hands-on experience in building and launching model rockets. Finish your studies learning about the careers that make space exploration possible. Linked Requirements: Space Exploration Notes and Prerequisites: Complete requirements: 2, 5b OR 5c, 7 and 8. Bring work from 2, 5b or 5c and 7 to show councilor.	Added to catalog: 07-27-2026 2 periods
		
26ST18	Surveying (2024 version) While earning this merit badge, Scouts will discover how land is measured and how it is described so that others can know where boundary lines are. They will have a chance to use some fine measuring instruments, apply advanced mathematics, operate computing equipment, and create a survey map. Linked Requirements: Surveying Notes and Prerequisites: Complete requirements: 5	Added to catalog: 07-27-2026 2 periods
		