













Class Catalog

2025 STEM in Scouting - Scouts BSA

25SS2	Archaeology (2021 version)	Added to catalog: 07-31-2025 3 periods
	<p>Archaeologists are detectives who study how people lived in the past. They figure out what happened, when, how, and why. Using the clues that people left behind, they try to understand how and why human culture has changed through time.</p> <p>Linked Requirements: Archaeology</p> <p>Notes and Prerequisites: Prerequisites: 4, 7, 8, 9, 10a or 10b, 11</p>	
25SS1	Architecture (2015 version)	Added to catalog: 07-31-2025 3 periods
	<p>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.</p> <p>Linked Requirements: Architecture</p>	
25SS3	Aviation (2025 version)	Added to catalog: 07-31-2025 3 periods
	<p>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.</p> <p>Linked Requirements: Aviation</p>	
25SS4	Chemistry (2025 version)	Added to catalog: 07-31-2025 3 periods
	<p>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.</p> <p>Linked Requirements: Chemistry</p> <p>Notes and Prerequisites: Prerequisites: 5, 6a, 6b, 6c, 6d, 7</p>	
25SS5	Digital Technology (2023 version)	Added to catalog: 07-31-2025 3 periods
	<p>Technology has come a long way since Computers merit badge was first introduced in 1967. This badge will teach Scouts about technology in the digital age.</p> <p>Linked Requirements: Digital Technology</p> <p>Notes and Prerequisites: Prerequisites: 4b, 6, 8, 9</p>	
25SS6	Drafting (2025 version)	Added to catalog: 07-31-2025 3 periods
	<p>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</p> <p>Linked Requirements: Drafting</p> <p>Notes and Prerequisites: Prerequisites: 7, 8</p>	






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25SS7	Electricity (2025 version)	Added to catalog: 07-31-2025 3 periods
	<p>Electricity is a powerful and fascinating force of nature. As early as 600 b.c., observers of the physical world suspected that electricity existed but did not have a name for it. In fact, real progress in unraveling the mystery of electricity has come only within the last 250 years.</p> <p>Linked Requirements: Electricity</p> <p>Notes and Prerequisites: Prerequisites: 7, 8</p>	
25SS8	Electronics (2025 version)	Added to catalog: 07-31-2025 3 periods
	<p>Electronics is the science that controls the behavior of electrons so that some type of useful function is performed. Today, electronics is a fast-changing and exciting field.</p> <p>Linked Requirements: Electronics</p> <p>Notes and Prerequisites: Prerequisites: 2a, 2b, 6</p>	
25SS9	Energy (2025 version)	Added to catalog: 07-31-2025 3 periods
	<p>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.</p> <p>Linked Requirements: Energy</p> <p>Notes and Prerequisites: Prerequisites: 1a, 5, 6</p>	
25SS10	Engineering (2024 version)	Added to catalog: 07-31-2025 3 periods
	<p>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.</p> <p>Linked Requirements: Engineering</p> <p>Notes and Prerequisites: Prerequisites: 1, 2, 5a or 5b, 9</p>	
25SS11	Inventing (2023 version)	Added to catalog: 07-31-2025 3 periods
	<p>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.</p> <p>Linked Requirements: Inventing</p> <p>Notes and Prerequisites: Prerequisites: 2b, 5, 6, 7, 9</p>	
25SS12	Nuclear Science (2024 version)	Added to catalog: 07-31-2025 3 periods
	<p>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.</p> <p>Linked Requirements: Nuclear Science</p>	


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25SS13	 <p>Oceanography (2013 version)</p> <p>The oceans cover more than 70 percent of our planet and are the dominant feature of Earth. Wherever you live, the oceans influence the weather, the soil, the air, and the geography of your community. To study the oceans is to study Earth itself.</p> <p>Linked Requirements: Oceanography</p> <p>Notes and Prerequisites: Prerequisites: 7, 8</p>	<p>Added to catalog: 07-31-2025 3 periods</p>
25SS14	 <p>Programming (2025 version)</p> <p>Programming Merit Badge: Go behind the screen to find out how computers process information and make digital devices useful and fun. The merit badge counselor will email you in advance of the class sample programming languages for requirement five (5) to download onto your laptop for your work in this class. You must bring your laptop with the advance sample program language requirement already downloaded on your laptop for this class.</p> <p>Linked Requirements: Programming</p> <p>Notes and Prerequisites: Prerequisites: 1a, 5. YOU MUST BRING YOUR OWN PERSONAL LAPTOP.</p>	<p>Added to catalog: 07-31-2025 3 periods</p>
25SS15	 <p>Robotics (2011 version)</p> <p>Earning the Robotics merit badge requires a Scout to understand how robots move (actuators), sense the environment (sensors), and understand what to do (programming); he should demonstrate robot design in building a robot. You should help ensure that the Scout has sufficiently explored the field of robotics to understand what it is about, and to discover whether this may be a field of interest for him as a career.</p> <p>Linked Requirements: Robotics</p> <p>Notes and Prerequisites: Prerequisites: 6b, 7</p>	<p>Added to catalog: 07-31-2025 3 periods</p>
25SS16	 <p>Space Exploration (2020 version)</p> <p>Space is mysterious. We explore space for many reasons, not least because we don't know what is out there, it is vast, and humans are full of curiosity. Each time we send explorers into space, we learn something we didn't know before. We discover a little more of what is there.</p> <p>Linked Requirements: Space Exploration</p> <p>Notes and Prerequisites: Prerequisites: 2, 5b, 5c, 7, 8</p>	<p>Added to catalog: 07-31-2025 3 periods</p>
25SS17	 <p>Surveying (2024 version)</p> <p>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.</p> <p>Linked Requirements: Surveying</p> <p>Notes and Prerequisites: Prerequisites: 6</p>	<p>Added to catalog: 07-31-2025 3 periods</p>

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25SS18	<div><div></div><div><p>Weather (2018 version)</p><p>Meteorology is the study of Earth's atmosphere and its weather and the ways in which temperature, wind, and moisture act together in the environment. In addition to learning how everyday weather is predicted, Scouts can learn about extreme weather such as thunderstorms, tornadoes, and hurricanes, and how to stay safe.</p><p>Linked Requirements: Weather</p><p>Notes and Prerequisites: Prerequisites: 8a, 9a or 9b</p></div></div>	<div>Added to catalog:</div> <div>07-31-2025</div> <div>3 periods</div>
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