



## MBU Online: Summer Edition

### Class Catalog

#### Event Contacts

Name	Title	Phone	Email
Jarrold Blundy	Camp Director Emeritus, Firelands Scout Reservation		

Registration opens April 18, 2020  
Visit [www.scoutingevent.com/440-37217](http://www.scoutingevent.com/440-37217) to register



## Class Catalog

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### Virtual Merit Badge Series (Scheduled Classes)



#### SAH64 American Cultures

The United States is a nation of immigrants. Every person came to America from somewhere else - or their ancestors did - and understanding these various cultural backgrounds can help Scouts to live in harmony with others in our varied and increasingly multicultural society.

12-11:59 PM **Instructor:** Peggy Thompson  
**Sessions:** American Cultures (July 13 & 15)



#### SAH28 American Heritage

Every Scout swears to an oath that includes duty to his country. A better understanding of American heritage, the ways in which the past has lead to our present nation, is key to truly knowing what it means to be an American.

12-11:59 PM **Instructor:** Derek Howland  
**Sessions:** American Heritage (July 9 & 10)



#### SAH39 Archaeology

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.

12-11:59 PM **Instructor:** Peggy Thompson  
**Sessions:** Archaeology (June 23 & 25), Archaeology (July 14 & 16)  
**Prerequisites:** Scouts should purchase this kit for use during the badge: <https://www.rainbowresource.com/product/052131/Egyptian-Mummy-Dig-Kit.html?>



#### SAH55 Architecture

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.

12-11:59 PM **Instructor:** Dustin Wiley  
**Sessions:** Architecture (June 29)  
**Prerequisites:** Scouts will complete requirements:  
#1- a&b (should be completed before the first meeting so we can discuss)  
#2- a, b, c, & d  
#3\*-a, b, or c  
#4  
5

\*Requirement 3a & 3b will need to be scheduled and completed by the scout if they choose to complete those. 3c the Scout can interview anyone who may be their potential client.



#### SAH14 Art

This merit badge concentrates on two-dimensional art, specifically drawing and painting in various media, including an introduction to design applications in the fields of graphic arts and industrial design, history and design principles, and how these fields relate to fine art

12-11:59 PM **Instructor:** Sarah Kurdila  
**Sessions:** Art (July 3), Art (July 17)



#### SAH54 Astronomy

In learning about astronomy, Scouts study how activities in space affect our own planet and bear witness to the wonders of the night sky: the nebulae, or giant clouds of gas and dust where new stars are born; old stars dying and exploding; meteor showers and shooting stars; the moon, planets, and a dazzling array of stars.

12-11:59 PM **Instructor:** Robert Murphy  
**Sessions:** Astronomy (July 3), Astronomy (July 17)



#### SAH19 Basketry

Basketry is a handy skill for a Scout. A basket can be a sturdy companion on campouts, carrying clothes snugly and efficiently, holding potatoes and corn for roasting over a campfire, or carrying the day's fishing catch back to camp for dinner. Baskets and basket-weaving projects also make great gifts for family and friends.

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12-11:59 PM **Instructor:** Dale Olson  
**Sessions:** Basketry (July 3), Basketry (July 17)  
**Prerequisites:** Scouts should review the requirements and will need to order their own supplies from:  
<https://www.scoutshop.org/basic-basket-weaving-merit-badge-craft-kits-645047.html>

Other options:  
<https://www.scoutshop.org/premium-basket-weaving-merit-badge-craft-kit-645046.html>  
<https://www.scoutshop.org/camp-stool-weaving-kit-17919.html>  
<https://www.scoutshop.org/square-flat-reed-basket-kit-646280.html>  
<https://www.scoutshop.org/small-round-reed-basket-kit-646281.html>



### SAH35 Bird Study

Birds are among the most fascinating creatures on Earth. Many are beautifully colored. Others are accomplished singers. Many of the most important discoveries about birds and how they live have been made by amateur birders. In pursuing this hobby, a Scout might someday make a valuable contribution to our understanding of the natural world.

12-11:59 PM

**Sessions:** Bird Study (June 26), Bird Study (July 10)



### SAH8 Chemistry

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.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Chemistry (June 24 & 26), Chemistry (July 15 & 17)



### SAH61 Citizenship in the Community

A nation is a patchwork of communities that differ from each other and may be governed differently. But regardless of how local communities differ, they all have one point in common: In the United States, local government means self-government. Good citizens help to make decisions about their community through their elected local officials.

12-11:59 PM

**Instructor:** Brian Wolf

**Sessions:** Citizenship in the Community (July 8 & 9)

**Prerequisites:** Pre-work: Research for Req. #2



### SAH47 Citizenship in the Nation

As Scouts fulfill the requirements for this merit badge, they will learn how to become active citizens are aware of and grateful for their liberties and rights, to participate in their governments and protect their freedom, helping to defend their country and standing up for individual rights on behalf of all its citizens.

12-11:59 PM

**Instructor:** Bruce Wick

**Sessions:** Citizenship in the Nation (July 1 & 2)

**Prerequisites:** Pre-work:

#3 - Watch the national evening news five days in a row OR read the front page of a major daily newspaper five days in a row.



### SAH1 Citizenship in the World

Scouts who earn the Citizenship in the World merit badge will discover that they are already citizens of the world. How good a world citizen each person is depends on his willingness to understand and appreciate the values, traditions, and concerns of people in other countries.

12-11:59 PM

**Instructor:** Jarrod Blundy

**Sessions:** Citizenship in the World (July 14 & 16)

12-11:59 PM

**Instructor:** Jarrod Blundy

**Sessions:** Citizenship in the World (June 24 & 25)

**Prerequisites:** Requirements #1, 2, 5, and 6 will be completed in class.

Requirements #3, 4, and 7 will be completed as homework.

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### SAH6 Coin Collecting

Coin collecting is one of the oldest of all hobbies. Hoards of ancient coins found in excavations indicate that coins were one of the first collectibles. From earliest times, people valued coins not only as a means of trading and storing wealth, but also as miniature works of art.

12-11:59 PM

**Instructor:** Jess Weaver

**Sessions:** Coin Collecting (June 26)

**Prerequisites:** Requirements 1, 2, 3, 4, 8 completed in the meeting.

Requirements 5 will be an assignment

Requirements 6, 7, 9 are collecting coins- will be an assignment that they can attach a photo of the coins they collected.

Requirement 10 is attending places, or giving a speech. One way that they could complete the badge is doing drawings of Colonial Era U.S coins.



### SAH44 Communication

This clear and concise definition comes from the U.S. Department of Education: "Communication focuses on how people use messages to generate meanings within and across various contexts, cultures, channels, and media. The field of communication promotes the effective and ethical practice of human communication."

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Communication (June 22, 24 & 26), Communication (July 6, 8 & 10)

**Prerequisites:** Scouts will complete requirements:

1- a, b, c, or d

2- a, or b

3

4

5- scouts will view a City Council meeting recorded on youtube

6

7- a, b, or c

9

Requirement 8 must be completed with their troop.



### SAH45 Crime Prevention

Preventing crime, which can be as simple as reducing the opportunities for crime to occur, is far less costly than apprehending and bringing legal action against those who break the law and it helps save people from the anguish of being victims.

12-11:59 PM

**Instructor:** Duncan Brown

**Sessions:** Crime Prevention (July 6 & 8)

**Prerequisites:** Pre-Work: #2, 4a and 4b

Class 1: #1, 9, 3, 2, 5

Class 2: #4, 6c, 7a, 8



### SAH10 Digital Technology

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.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Digital Technology (June 29 & July 1)

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### SAH46 Dog Care

The love and interdependence between humans and dogs has endured for thousands of years. Evidence suggests that dogs and humans started relying on each other thousands of years ago. Today, dogs are our coworkers and companions. They assist search-and-rescue teams, law enforcement officers, hunters, farmers, and people with disabilities. They also play with us and keep us company.

12-11:59 PM

**Instructor:** Jess Weaver

**Sessions:** Dog Care (June 26)

**Prerequisites:** #1, 2, 3, 6(c)(d)(f), and 7 will be done in class.

#5, 6(a)(b)(e), 8, 9, and 10 will be completed as homework.

Req. #4 is a 2-month long requirement, and will not be completed in class if they have not already started. The requirement can be completed with any Dog Care counselor in the future.



### SAH59 Emergency Preparedness

Scouts are often called upon to help because they know first aid and they know about the discipline and planning needed to react to an emergency situation. Earning this merit badge helps a Scout to be prepared by learning the actions that can be helpful and needed before, during, and after an emergency.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Emergency Preparedness (June 29 & July 1), Emergency Preparedness (July 6, 8 & 10)



### SAH16 Energy

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.

12-11:59 PM

**Instructor:** Matt Wendling

**Sessions:** Energy (July 9)



### SAH22 Environmental Science

While earning the Environmental Science merit badge, Scouts will get a taste of what it is like to be an environmental scientist, making observations and carrying out experiments to investigate the natural world.

12-11:59 PM

**Instructor:** Sarah Kurdila

**Sessions:** Environmental Science (June 22, 24 & 26), Environmental Science (June 29, July 1 & 3), Environmental Science (July 6, 8 & 10), Environmental Science (July 13, 15 & 17)

12-11:59 PM

**Instructor:** Peggy Thompson

**Sessions:** Environmental Science MB Online



### SAH66 Exploration

Exploration Merit Badge.

12-11:59 PM

**Instructor:** Sarah Kurdila

**Sessions:** Exploration (July 13 & 15)



### SAH69 Family Life

The family is the basic unit of society and is important to both individuals and communities. The world is rapidly changing, making today's society much more complex than ever before. As Scouts earn this merit badge, they will realize why it is important to know more about family life and how to strengthen their families.

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Family Life (June 23 & 25)

**Prerequisites:** Pre-work:

Req. #1: Prepare an outline on what a family is and prepare to discuss this with your merit badge counselor.

Completed during the week:

#2

#4

#5- a, b, c

#6-a, b

#7

Req. #3 is a 90-day log of home duties or chores around the house. This will likely need to be completed outside of the Merit Badge University- Online Edition.

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### SAH21 Fingerprinting

In earning the Fingerprinting merit badge, Scouts will learn about and use an important technique that is used by law enforcement officers, along with other materials like matching dental records and DNA sampling, to help identify amnesia victims, missing persons, abducted children, and others.

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Fingerprinting (July 3), Fingerprinting (July 17)

**Prerequisites:** The following requirements can be completed during the merit badge class:  
#1, 2, 3, 4b, 5

For #4a (optional), you could visit a local police department, or purchase a kit like this: <https://www.amazon.com/dp/B00FWQL3F8/>



### SAH51 Fish and Wildlife Management

Wildlife management is the science and art of managing the wildlife - both animals and fish - with which we share our planet. Maintaining the proper balance and the dynamics that go with it requires humankind's attention. We use this stewardship tool to help minimize or eradicate the possibility of extinction of any given species. We want our descendants to have the opportunity to experience the same animal diversity that we now enjoy.

12-11:59 PM

**Instructor:** Peggy Thompson

**Sessions:** Fish & Wildlife Management (June 30 & July 2), Fish & Wildlife Management (July 21 & 23)

**Prerequisites:** For Req. #5b, you'll need to construct and monitor a bird feeder. Here is an option: <https://www.amazon.com/Feeder-Unfinished-Wooden-Craft-Project/dp/B01CRFC1MK/>



### SAH53 Forestry

In working through the Forestry merit badge requirements, Scouts will explore the remarkable complexity of a forest and identify many species of trees and plants and the roles they play in a forest's life cycle. They will also discover some of the resources forests provide to humans and come to understand that people have a very large part to play in sustaining the health of forests.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Forestry (June 30 & July 2)



### SAH41 Gardening

Humans have been growing plants for thousands of years. Farmers and horticulturists make their living growing food and other plants, while other people grow gardens for pleasure. Becoming a good gardener requires a Scout to understand the science of growing plants, how to prepare the soil, how to select and plant seeds, and how to care for the growing plants.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Gardening (June 23), Gardening (July 7)



### SAH11 Genealogy

Exploring your roots - where your family name came from, why your family lives where it does, what your parents and grandparents did for fun when they were your age - can be fascinating. Discovering your ancestors back through history is what genealogy is all about.

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Genealogy (July 1)

**Prerequisites:** The following requirements will be completed during the meeting:  
#1, 2a, 3, 4, 6, 7, 8

The following requirements will need to be done outside of the class

#2(b) - is a 6 week journal

#5 - this could be done prior to the class and we can discuss it during the meeting time.



### SAH43 Geology

Geology is the study of Earth. It includes the study of materials that make up Earth, the processes that change it, and the history of how things happened, including human civilization, which depends on natural materials for existence.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Geology (June 26), Geology (July 10)

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### SAH67 Golf

Golf is unique because the players police themselves. Other sports depend upon referees or umpires to apply penalties when there are infractions of the rules. In golf, every player is expected to act honorably, and the welfare and integrity of the game rely on every player's honesty. This is why golf often is referred to as a "gentleman's game."

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Golf (July 17)

**Prerequisites:** During class we will discuss requirements 1, 2, 3, 4, 5, 6.

Requirement 7 and 8 will need to be completed outside of the Merit Badge University Online course.



### SAH58 Insect Study

In earning the Insect Study merit badge, Scouts will glance into the strange and fascinating world of the insect. There, they will meet tiny creatures with tremendous strength and speed, see insects that undergo startling changes in habits and form as they grow, and learn how insects see, hear, taste, smell, and feel the world around them.

12-11:59 PM

**Instructor:** Peggy Thompson

**Sessions:** Insect Study (June 29), Insect Study (July 13)

**Prerequisites:** For Req. #9, you'll need to raise an insect from larva to adult. Here's an option:  
<https://www.amazon.com/Insect-Lore-Butterfly-Growing-Kit/dp/B000001SC5/>



### SAH65 Journalism

One thing is for sure about journalism: It is never boring. For a reporter, almost every day is different from the last. One day you might interview the mayor of the city, the next day report on a car accident, and the day after that preview a new movie.

12-11:59 PM

**Instructor:** Mark Haas

**Sessions:** Journalism (July 16)

**Prerequisites:** Please ready to discuss all requirements since it will involve research.



### SAH57 Landscape Architecture

Landscape architects design and plan the various outdoor spaces in modern communities - neighborhood parks, soccer fields, school grounds, places of worship, office parks, shopping malls, cemeteries, and lakes - creating outdoor places that people will care about and want to visit.

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Landscape Architecture (June 30)

**Prerequisites:** Pre-work: Scouts should prepare ahead of time to discuss #1 and #3 during the class.

Requirements completed during the merit badge class include:

#2 (Must complete requirement 1 for this requirement)

#5

Requirement #4 will take time outside of the course to complete.



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### SAH26 Leatherwork

Scouts who complete the requirements to earn the Leatherwork merit badge will explore leather's history and its endless uses. They will learn to make a useful leather item using the same types of raw materials that our ancestors used; be challenged to master skills like hand-stitching, lacing, and braiding.; and learn how to preserve and protect leather items so they will last a lifetime and beyond.

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Leatherwork (June 22 & 24),Leatherwork (June 29 & July 1),Leatherwork (July 6 & 8),  
Leatherwork (July 13 & 15)

**Prerequisites:** Scouts will complete requirements:

#1- a & b

#2- a, b, c, & d

#3

#4

#5-a, b, c, or d

Order a kit for the class (Req. #3):

<https://www.scoutshop.org/leatherwork-merit-badge-knife-sheath-kit-637740.html>

<https://www.scoutshop.org/leatherwork-merit-badge-wallet-kit-638401.html>

<https://www.scoutshop.org/basic-leather-tooling-set-17450.html>

<https://www.scoutshop.org/get-started-in-leather-crafting-book-649769.html>

<https://www.scoutshop.org/leather-kit-with-bottle-carabiner-17878.html>

<https://www.scoutshop.org/mystery-braid-bracelet-kit-17063.html>



### SAH25 Mammal Study

A mammal may weigh as little as 1/12 ounce, as do some shrews, or as much as 150 tons, like the blue whale. It may spring, waddle, swim, or even fly. But if it has milk for its young, has hair of some kind, is relatively intelligent, and has warm blood, then it is a mammal.

12-11:59 PM

**Instructor:** Peggy Thompson

**Sessions:** Mammal Study (June 22),Mammal Study (July 6)



### SAH36 Metalwork

Scouts will begin their work on this merit badge by learning about the properties of metal, how to use simple metalworking tools, and the basic metalworking techniques. Then they will practice using these tools and techniques before concentrating on the more intricate skills of one of four metalworking options.

12-11:59 PM

**Sessions:** Metalwork (June 22 & 24),Metalwork (June 29 & July 1),Metalwork (July 6 & 8),Metalwork  
(July 13 & 15)



### SAH68 Mining in Society

Mining has been an important part of our nation since the 19th century. Today, the industry employs 3 million Americans, directly and indirectly, and is a major contributor to the global mining landscape. This merit badge covers the history of mining, explores the status of mining in the 21st century, introduces Scouts to modern mining careers, and explores the all-important topic of mining safety.

12-11:59 PM

**Instructor:** Paul Parrish

**Sessions:** Mining in Society (July 16)



### SAH2 Nature

There is a very close connection between the soil, the plants, and all animal life, including people. Understanding this connection, and the impact we have upon it, is important to preserving the wilderness, as well as to our own well-being as members of the web of nature.

12-11:59 PM

**Instructor:** Jarrod Blundy

**Sessions:** Nature (July 7),Nature (July 14)



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### **SAH49 Oceanography**

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.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Oceanography (June 30 & July 3)



### **SAH70 Personal Fitness**

Personal fitness is an individual effort and desire to be the best one can be. Regardless of their current levels of personal fitness, in the twelve weeks it will take Scouts to complete the athletic requirements for this merit badge, they will be in better shape, feel better about themselves, have more energy, and gain self-confidence in their overall abilities.

12-11:59 PM

**Instructor:** Greg Olgin

**Maximum number of participants:** 30

**Sessions:** Personal Fitness (July 2)



### **SAH33 Personal Management**

Personal management is about mapping a plan for your life that will involve setting short-range and long-range goals and investigating different ways to reach those goals. Education, training, and experience all help make your goals become a reality. To achieve your goals, you will choose the best path and make a commitment to it, while remaining flexible enough to deal with changes and new opportunities.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Personal Management (June 23 & 25), Personal Management (July 14 & 16)



### **SAH32 Pets**

Pet ownership is a mixture of fun, excitement, responsibility, commitment, expense, and learning. Besides providing a window into the animal world, owning pets gives us opportunities to participate in activities that strengthen the human-animal bond. Pet ownership teaches us about the responsibility we have to the other living beings on this planet, and pets can be just plain fun.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Pets (June 22), Pets (July 13)



### **SAH42 Plant Science**

Plant scientists use their curiosity and knowledge to develop questions about the world of plants. Then they try to answer those questions with further observations and experiments in the laboratory and in the field. To earn this merit badge, Scouts will explore three of the most important plant science specialties: agronomy, horticulture, and field botany.

12-11:59 PM

**Instructor:** Greg Olgin

**Sessions:** Plant Science (June 25), Plant Science (July 9)



### **SAH3 Public Health**

The field of public health deals with maintaining and monitoring the health of communities, and with the detection, cure, and prevention of health risks and diseases. Although public health is generally seen as a community-oriented service, it actually starts with the individual. From a single individual to the family unit to the smallest isolated rural town to the worldwide global community, one person can influence the health of many.

12-11:59 PM

**Instructor:** Jess Weaver

**Sessions:** Public Health (June 22 & 23), Public Health (June 29 & 30), Public Health (July 6 & 7)

12-11:59 PM

**Instructor:** Jess Weaver

**Sessions:** Public Health (July 14 & 17)

**Prerequisites:** Requirements 1, 2, 3 will be completed on Day 1

Requirements 4, 5, 6 will be completed on Day 2

Requirements 7, 8 will be completed as an assignment

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### SAH60 Public Speaking

A lot happens during the course of every person's life and your ability to communicate your feelings and ideas is the best way to connect to the larger world. Even if you haven't stood at a podium on the stage and find the whole idea scary, sooner or later, someone is going to ask you to get up and say a few words. If you are prepared, it won't be scary. It can even be fun.

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Public Speaking (July 10)

**Prerequisites:** Be prepared to present requirement 1, 2, and 4.

Requirement 4 may need to be done outside of the class due to time restrictions.

We will work on requirement 3 and 5 during the class as well.



### SAH30 Pulp and Paper

Here's an astonishing number to digest. Each person in the United States uses about 700 pounds of paper each year. Paper is everywhere in our lives. Every year in the United States, more than 2 billion individual books, 24 billion newspapers, and 350 million magazines are published on paper.

12-11:59 PM

**Instructor:** Sarah Kurdila

**Sessions:** Pulp & Paper (June 26), Pulp & Paper (July 10)



### SAH63 Reading

If you have ever wanted to go back in time or wished you could visit the future, if you are curious about the world, or if you are interested in how things work or like to learn new things, these are all reasons why you should want to read. Reading is fascinating. It's full of surprises. And it will take you places you can't get to in any other way.

12-11:59 PM

**Instructor:** Dustin Wiley

**Sessions:** Reading (July 7)

**Prerequisites:** Requirement 1

Scouts will need to complete this requirement and its components ahead of time in order to prepare for discussions with the merit badge counselor during the class. The intent of this requirement and its components is to help familiarize Scouts with their local public library or school library and the resources available to them at the facility.

#### Requirement 2

Scouts should consider using a notebook to record their answers to the requirement components for easy reference when reviewing this requirement and its components with the merit badge counselor.

#### Requirement 3

Scouts will find the use of the Scoutmaster Bucky Reading Merit Badge Workbook to be very helpful in documenting their work for this requirement. Scouts should consider using this workbook or their own notebook to record their work easy reference when reviewing with the merit badge counselor.

#### Requirement 5

Scouts should review this requirement and and be prepared to discuss. It is strongly recommended that Scouts bring any notes or supporting documents they may have to help show the counselor that they have prepared for discussion of these items. A portion of the class will be devoted to open group discussion on each of the Scouts' readings.

#### Requirement 6

This requirement will NOT be covered within the class, however Scouts wishing to be considered for completion of this requirement should bring adequate documentation to show that they have completed one of these requirement components. Adequate documentation is not a letter from your parent, but rather a letter or note on organizational letterhead from a representative of the organization where you performed your activity hours. It is best not to stray too far from the stated requirement.

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### SAH7 Reptile and Amphibian Study

Boys always have been interested in snakes, turtles, lizards, and alligators, as well as frogs and salamanders. Developing knowledge about these captivating creatures leads to an appreciation for all native wildlife; understanding the life cycle of a reptile or amphibian and keeping one as a pet can be a good introduction to natural history; and knowing about venomous species can help Scouts to be prepared to help in case of an emergency.

12-11:59 PM **Instructor:** Peggy Thompson

**Sessions:** Reptile & Amphibian Study (June 23 & 25), Reptile & Amphibian Study (July 7 & 9)



### SAH23 Scouting Heritage

Introduces Scouts to the history of the Boy Scouts of America. They'll learn it all - from Scouting's beginnings under Lord Baden-Powell to the history of their own troop.

12-11:59 PM **Instructor:** Tim Weaver

**Sessions:** Scouting Heritage (June 30 & July 2)



### SAH31 Sculpture

This merit badge introduces Scouts to sculpture, an art form that allows an artist to express what he sees and feels by using these three dimensions by shaping materials such as clay, stone, metal, and wood.

12-11:59 PM **Instructor:** Sarah Kurdila

**Sessions:** Sculpture (June 23 & 25), Sculpture (June 30 & July 2), Sculpture (July 14 & 16)



### SAH20 Soil and Water Conservation

Conservation isn't just the responsibility of soil and plant scientists, hydrologists, wildlife managers, landowners, and the forest or mine owner alone. It is the duty of every person to learn more about the natural resources on which our lives depend so that we can help make sure that these resources are used intelligently and cared for properly.

12-11:59 PM **Instructor:** Peggy Thompson

**Sessions:** Soil & Water Conservation (June 30 & July 2)



### SAH56 Space Exploration

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.

12-11:59 PM **Instructor:** Michael Caithaml

**Sessions:** Space Exploration (July 2 & 3)

**Prerequisites:** Space Exploration will require a separate launching date TBD in August.

Scouts should order their own rockets, which can be purchased from the following sources:

- <https://www.walmart.com/ip/Estes-Tandem-X-Flying-Model-Rocket-Launch-Set/26766028>
- <https://www.rcplanet.com/estes-tandem-x-launch-set-e2x-easy-to-assemble-skill-l1-est1469/>
- <https://www.michaels.com/estes-flash-launch-det/10160332.html>
- <https://www.walmart.com/ip/Estes-EST7247-24-mm-Nike-Smoke-Engine-Rocket-Kit/716873146>
- <https://www.michaels.com/estes-taser-launch-set/10405939.html>

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**SAH48 Stamp Collecting**

The world's most popular hobby, stamp collecting is enjoyed by millions throughout the world. Through this hobby, you can experience history: postage stamps are like tiny windows that introduce the people of the world to the country's leaders, customs, history, products, and environment.

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**Instructor:** Dustin Wiley**Sessions:** Stamp Collecting (July 3)**Prerequisites:** The following requirements can be completed during the merit badge course:  
#1(a)(b), 2, 4(a)(b), 6(b), 7(a)(c)(d)(e)(f)

These requirements can be completed and signed off during the class, but you must be prepared ahead of time to present them:

#3- must already have each of the examples prior to the class

#5- must have 3 of the tools available to demonstrate the use

#6a- if you have stamps available to demonstrate proper mounting, and have a page of stamps already mounted

#7b- must visit a post office, stamp club, or stamp show. This will need to be completed outside of the class.

#8- these must be completed prior to the class. You must show a collection of stamps. The minimum requirement would be 8e.

**SAH40 Sustainability**

Sustainability Merit Badge.

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**Instructor:** Greg Olgin**Sessions:** Sustainability (June 22 & 24), Sustainability (July 6 & 8), Sustainability (July 13 & 15)**SAH38 Textile**

People use countless fibers and fabrics in their everyday lives: clothes, carpets, curtains, towels, sheets, upholstered furniture. Add to that list boat sails, book bindings, bandages, flags, sleeping bags, mailbags, airbags, seat belts, backpacks, parachutes, umbrellas, basketball nets, and more.

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**Instructor:** Peggy Thompson**Sessions:** Textile (July 3), Textile (July 10)**SAH34 Weather**

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.

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**Instructor:** Peggy Thompson**Sessions:** Weather (June 24), Weather (July 1), Weather (July 8), Weather (July 22)**Prerequisites:** For Req. 9a, you'll need to put together a weather station and make some measurements. Here's an option: <https://smile.amazon.com/gp/offer-listing/1603800875/>**SAH17 Wilderness Survival**

In their outdoor activities, Scouts learn to bring the clothing and gear they need, to make good plans, and do their best to manage any risks. But now and then, something unexpected happens. When things go wrong, the skills of wilderness survival can help make everything right again.

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**Instructor:** Patrick O'Leary**Sessions:** Wilderness Survival (July 6, 7 & 8)**Prerequisites:** Prior to class you must review the preparation documents, and prepare materials and methods to be shown on-screen with the counselor.- Materials & Methods Prep: [https://drive.google.com/file/d/1\\_oU3OyJlJpsf-QGPWrtAfZYjRBZKZz0/view?usp=sharing](https://drive.google.com/file/d/1_oU3OyJlJpsf-QGPWrtAfZYjRBZKZz0/view?usp=sharing)- Wilderness Survival Priority List: [https://drive.google.com/file/d/1Cz6juwjHZ8a1fjY-9cKdyf5fAhgeV\\_i/view?usp=sharing](https://drive.google.com/file/d/1Cz6juwjHZ8a1fjY-9cKdyf5fAhgeV_i/view?usp=sharing)

## Class Catalog

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**SAH37      Wood Carving**

As with any art, wood carving involves learning the basics of design, along with material selection and tools and techniques, as well as wood-carving safety. The requirements of the Wood Carving merit badge introduce Scouts to an enjoyable hobby and that can become a lifetime activity.

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**Instructor:** Sarah Kurdila**Sessions:** Wood Carving (June 23 & 25), Wood Carving (June 30 & July 2), Wood Carving (July 7 & 9)**SAH62      Woodwork**

Wood is an amazingly versatile, practical, yet beautiful material. A skilled craftsman can use wood to fashion just about anything. As a woodworker or carpenter, you will find no end of useful, valuable, and fun items you can make yourself, from wood.

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**Instructor:** Sarah Kurdila**Sessions:** Woodwork (July 7 & 8), Woodwork (July 14 & 16)