

American Heritage

- Complete Requirement #3c

Aviation

- Be prepared to discuss Requirements #1a through #1f during the first session of MB College.
- Try and do #4a at a small local airport. Ask at the office or ask any people there. Aviation enthusiasts LOVE to talk about flying! If you do meet a pilot getting ready to fly, do #2b with the pilot. If you aren't able to visit a small airport before 1/8/22 it's ok.

Bugling

Thank you, Scout, for Bugling! If you read through the requirements *carefully*, you will note (requirement #6?) that you may already have “passed” all the requirements! But for me to “Pass” you, I ask that before you come to our meeting, that you:

- 1) **READ** the Merit Badge Pamphlet, either online or paper copy (“Music and Bugling Merit Badges”). If you need one, tell me (James Lehman, Jr., lehmaj@verizon.net, 301.275.1708) and I can bring one for you to **BUY**. **NOT** the “worksheet”, that is not the pamphlet. **BRING your Blue Card!**
- 2) Applicant must provide their own instrument. I do not provide a bugle. Trumpet, cornet, or bugle are all acceptable.
- 3) Understand - this is NOT a “learn and earn” session! You are expected to play the required bugle calls! However, I do not expect you to have necessarily memorized all of them (that would be good!), so you may read the charts.
- 4) Req.#2b: Bring your WRITTEN, on staff paper, original bugle call and be prepared to play that, too.
- 5) Bring a note from your Scoutmaster attesting to your satisfying of Req.#6.
- 6) Be prepared (there’s that phrase again!) to discuss all other requirements.

Chemistry

- Make a Cartesian Diver and bring it with you (Instructions can be found on the web).
http://en.wikipedia.org/wiki/Cartesian_diver.

Chess

- Print out the Chess MB worksheet at: <http://usscouts.org/mb/worksheets/list.asp>.
- Start practicing chess!

Citizenship in Society

- Complete Requirement #1a

Citizenship in the Community

- Complete Requirements #2 through #8.

Citizenship in the Nation

- Scout needs to complete Requirement #2 (and be prepared to discuss it).
- Scout needs to complete the first part of Requirement #3 (and be prepared to discuss).
- Scout must read the documents outlined in Requirement #4.
- Scout must pick a speech.
- Scout must ask permission about for requirement #6, & the letter for Requirement #8.

Citizenship in the World

- Complete Requirements #1, #3a, #3b, #4, #5c, #7.

Coin Collecting

- Know three different ways to store a collection, and describe the benefits, drawbacks, and expenses of each method. Pick one to use when completing requirements.
- Do the following:
 - a) Demonstrate to your counselor that you know how to use two U.S. or world coin reference catalogs.
 - b) Read a numismatic magazine or newspaper and tell your counselor about what you learned.
- Collect and show your counselor five different state quarters you have acquired from circulation.
- Collect from circulation a set of currently circulating U.S. coins. Include one coin of each denomination (cent, nickel, dime, quarter, half-dollar, and dollar). For each coin, locate the mint marks, if any, and the designer's initials, if any.
- Do ONE of the following:
 - a) Collect and identify 50 foreign coins from at least 10 different countries.
 - b) Collect and identify 20 bank notes from at least five different countries.
 - c) Collect and identify 15 different tokens or medals.
 - d) For each year since the year of your birth, collect a date set of a single type of coin.
- Do ONE of the following:
 - a) Tour a U.S. Mint facility, the Bureau of Engraving and Printing, or a Federal Reserve Bank, and describe what you learned to your counselor.
 - b) With your parent's permission, attend a coin show or coin club meeting, or view the Web site of the U.S. Mint or a coin dealer, and report what you learned.
 - c) Give a talk about coin collecting to your troop or class at school.
 - d) Do drawings of five Colonial-era U.S. coins.

Collections

- Prepare a short, written report or outline, giving a detailed description of your collection, including a short history. Include why you chose that type of collecting and what you enjoy and have learned from your collection.
- Do the following for your counselor:
 - a) Discuss at least 10 terms commonly used in your collection and be prepared to discuss the definition of each.
 - b) Show any two groups from your collection. Explain how you organized your collection and why you chose that method. (Note: if your collection is too large to transport and view directly, photographs should be available to share.)
 - c) Explain how your collection is valued by other collectors and display any price guides that may be available.
 - d) Explain how your collection is graded for value, physical defects, size and age. Show the various classifications or ratings used in your collection.
 - e) List the national, state, or local association responsive to your collection.
 - f) Show the location of and explain to your counselor the identification number (if applicable), series, brand name (if any), and any special identification marks.
- Find out about career opportunities in collecting. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor and explain why this profession might interest you.

Communications

- Requirement #2 – **Do ONE of the following:**
 - a) Think of a creative way to describe yourself using, for example a collage, short story or autobiography, drawing or series of photographs, or a song or skit. Using the aid you created, make a presentation to your counselor about yourself.
 - b) Choose a concept, product, or service in which you have great confidence. Build a sales plan based on its good points. Try to persuade the counselor to agree with, use, or buy your concept, product, or service. After your sales talk, discuss with your counselor how persuasive you were.
- Requirement #5 - Attend a public meeting (city council, school board, debate) approved by your counselor where several points of view are given on a single issue. Practice active listening skills and take careful notes of each point of view. Prepare an objective report that includes all points of view that were expressed and share this with your counselor. (This must can be signed off by your scoutmaster)

- Requirement #6 – With your counselor’s approval develop a plan to teach a skill or inform someone about something. Prepare teaching aids for your plan. Carry out your plan. With your counselor, determine whether the person has learned what you intended.
- Requirement #8 - Plan a troop or crew court-of-honor, campfire program, or interfaith worship service. Have the patrol leader’s council approve it, then write the script and prepare the program. Serve as the Master of Ceremonies. Once the program has been completed, it MUST be signed off by your Scoutmaster.

Crime Prevention

- Complete requirement #2
- Complete requirement #7a or #7b

Dentistry

- No prerequisites for this merit badge

Disabilities Awareness

- Complete requirement #4a

Electronics

- Where the requirements call for the scout to 'tell', 'describe', 'discuss', 'draw' or 'explain' prepare a written answer. (Requirements #1, #2A, #2B, the first part of #4A, #4B, and #4C, #5B, & #6)
- Please do the prerequisites and bring them to the first session of the College.
- This will allow us to spend the majority of our class time working on requirement #3 and the second half of requirement #4 (your project). We will be doing requirement #5A on the first day of class.
- Taking the electricity merit badge prior to this class is strongly recommended.

Emergency Preparedness

- Have completed the First Aid MB and bring proof of completion. (Note—DO NOT sign up for Emergency Preparedness if you do not already have First Aid.)
- Bring your own copy of the Emergency Preparedness MB book to class with you.
- Bring a paper copy of the Emergency Preparedness worksheet to class with you. The worksheet is available at: <http://usscouts.org/mb/worksheets/list.asp>. (Note that the amount of space in the worksheet may not be enough for a proper answer. See requirement 2b for an example of where more space is needed. Attach extra sheets as needed.)
- Prepare your Personal Emergency Service Pack (see Requirement #8c) and bring it with you to the first day of class. (Note—do not bring your sleeping bag.) Your emergency service pack should contain a signaling mirror (for use with Requirement #4). The mirror should be light weight and unbreakable (metal preferred).
- Complete requirement #9. We prefer that you choose #9A or #9B. If you choose #9A, e-mail your safety checklist to BOTH jldenni@aol.com and lboydreed@gmail.com for approval. If you choose #9B, please send an e-mail to BOTH jldenni@aol.com and lboydreed@gmail.com for the minimum requirements for an acceptable escape plan. Do not wait until the last day and then expect an immediate response. Allow the merit badge counselors 72 hours to respond.
- All written work brought to class should be printed on paper. Do not bringing homework to class in electronic format (such as on a Kindle or smart phone or as an electronic file).

Engineering

- Complete Requirements #2, #8 and #9 after reading the Merit Badge Pamphlet.
- The Scout is to do Requirements #1, #5, and #6 between the first and second sessions.
- Please do not attempt requirements #5 & #6 before the first session.

Family Life

- Please contact the MB Counselor for Class 1 or Class 2 (see MBC Counselor List)
- Requirement #3 – Start your home duty/chore log **NOW**. These logs will must be kept for 90 days and shown to the counselor at **Session 2 (26 Feb 2022)** to complete the merit badge.
- Requirement #4 – Decide on and carry out a project that you would do around the house that would benefit the family. **However, you must have prior approval of your parents/guardians and your merit badge counselor before attempting this project.** The Scout is to submit, for my review and approval, a written description of a project that can be carried out around the house that has the approval of the parent/guardian. A completed project, without my prior approval, it will not be accepted. Scout will need to submit a report to your merit badge counselor outlining how the project benefited the family. This will be covered in both sessions.
- Requirement #5 - The Scout is to submit, for my review and approval, a project that can be carried out around the house that has the approval of the parent/guardian. A completed project, without my prior approval, will not be accepted. Once you have my approval, plan and carry out a project that involves the participation of your family. This will be covered in both sessions of the College.
- After carrying out the project, discuss the following with your merit badge counselor: *Note: this needs to be different than that of requirement #4 as #4 deals with how the Scout's own work benefits the family and that #5 deals with how the Scout's family's work benefit the family.*

- The objective or goal of the project
- How individual members of your family participated
- The results of the project

Note: approval is needed on both of these requirements prior to beginning the projects. Otherwise, no credit will be given.

Fire Safety

- Print the Fire Safety MB worksheet and bring it to MBC. You can print the worksheet at: <http://usscouts.org/mb/worksheets/list.asp>.
- Complete Requirement #6a. Draw a home fire-escape plan, and Conduct a home safety survey (you can find it at the end of the Fire Safety MB worksheet packet)
- Complete Requirement #12. Choose a fire safety - related career that interests you. Describe the level of education required, and the responsibilities of a person in that position. Tell why this position interests you.

First Aid

- 1. Satisfy your counselor that you have current knowledge of all First-aid requirements for Tenderfoot, Second Class, and First Class ranks. Scoutmasters can provide a signed note if you have completed First Class. For those who have not made First Class bring your signed Scout book to class.
- 5a. Prepare a first-aid kit for your home. Display and discuss its contents with your counselor. They can take a picture and e-mail it to me at cameron1520@verizon.net. At a minimum, the kit should contain the following and they all must be visible:
 - Roller bandage, 2-inch (1)
 - Roller bandage, 1-inch (2)
 - Adhesive tape, 1-inch (1 roll)
 - Alcohol swabs (24)
 - Assorted adhesive bandages (1 box)
 - Safety pins (12)
 - Elastic bandages, 3-inch-wide (2)
 - Scissors (1 pair)
 - Sterile gauze pads, 3-by-3-inch (12)
 - Moleskin, 3-by-6-inch (4)
 - Gel pads for blisters and burns (2 packets)
 - Tweezers (1 pair)
 - Triple antibiotic ointment (1 tube)
 - Pencil and paper
 - Triangular bandages (4)
 - Protective goggles/safety glasses (1 pair)
 - Soap (1 small bar) or alcohol-based hand sanitizing gel (1travel size bottle)
 - Non-latex disposable gloves (6 pairs)
 - CPR breathing barrier (1) Available in class \$1.00
- 5b. With an adult leader, inspect your troop's first-aid kit. Evaluate it for completeness. Send an email report with your findings to your counselor and Scout Leader with recommendations for what needs to be added or replaced.

- 14. Teach another Scout a first-aid skill selected by your counselor. This can be any First Aid skill from the Merit badge book using the EDGE method. It can be videoed and e-mailed to me or videoed on their phone and brought to the class.

Fish and Wildlife Management

- No prerequisites for this merit badge

Genealogy

- Complete Requirement #2b
- Complete Requirement #3
- Complete Requirement #4b (i.e. Birth Certificate, Marriage Certificate, etc.)

Geology

- Complete Requirement #4

Health Care Professions

- No prerequisites for this merit badge

Inventing

- This badge requires a significant amount of work to be done outside of class. Classroom attendance alone is not sufficient for completing the badge.
- Scouts must have access to a copy of the merit badge book.
- Scouts must receive counselor approval before starting on their invention project (Requirement #7), and Scouts will be required to submit written answers to all "discuss with your counselor" type requirements.
- Written answers to questions need to be in the Scout's own words. Responses that have been "cut and pasted" from Wikipedia, etc., will not be accepted.
- Most scouts find it convenient to use the worksheet from this web site as a place to record their answers. <http://usscouts.org/mb/worksheets/list.asp>.
- Completion of requirements after the College concludes must be approved by the counselor.
- For Requirement #3c, Scouts will be required to locate information via the internet (web addresses will be provided). Scouts must have computer access at home, school, or the public library.
- For Requirement #3c, Scouts may substitute a household tool or kitchen gadget for the camping item mentioned if they are unable to find a camping item with a patent number on it.
- Scouts are requested to bring to the first classroom session (in January) an invention proposal as per Requirement #6.

Law

- Complete Requirement #1
- Complete Requirement #3
- Complete Requirement #5
- Complete Requirement #6
- Complete Requirement #9

Model Design and Building

- For both sessions, Scouts should bring a printed copy of the latest merit badge worksheet with writing utensil and a desire to learn. The latest worksheet is at the link below. <http://usscouts.org/mb/worksheets/list.asp>.
- For the first session, review the 5 options in Requirement #4 with your parents and come up with at least two ideas for models you would build.
- Remember that for Requirement #3, you must make a plan of your model to proper scale and list materials and tools.
- After in depth discussion of the 5 model types, we will discuss and finalize your choice in the first session.
- Complete Requirement #6 on your worksheet.

Music

- No prerequisites for this merit badge

Nuclear Science

- No prerequisites for this merit badge

Orienteering

- No prerequisites for this merit badge

Personal Management

- Have chosen the item your family might want to purchase as referenced in Requirement #1. Be prepared to discuss this topic with your counselor at the first class. Your homework between the two classes will be to prepare the written plan and submit it at the beginning of the second class. This paper should be one to three pages in length.
- Start your 13 week budget in Requirement #2 **NOW**. The scout shall use the Sample Budget Plan and Tables format at the end of the workbook. The Scout will need to bring their budget to the first and second sessions.
- Read, familiarize yourself, and discuss with your parents, guardians, or scout leaders, the MB topics in Requirements #3 and #4 prior to arriving to the first class. Be prepared to discuss in class.
- Have chosen five publicly traded stocks as referenced in Requirement #5. Your homework between the two classes will be to research these five stocks as shown in class and submit the 1D, 5D, and 1Y graphs for each stock at the beginning of the second class.
- Requirements #6 and #7 will be discussed in class.
- Be prepared to write your "to do" list of tasks or activities as referenced in Requirement #8. Your homework between the two classes will be the referenced journal. The scout shall use the Sample "To-Do" Table format at the end of the workbook. We will review the journals and discuss the lesson in the second class.
- Have chosen the project referenced in Requirement #9 and be prepared to discuss. Your homework between the two classes will be to prepare the written project plan document and must be submitted at the beginning of the second class. This paper should be about three pages in length.
- Have chosen a career to research as reference in Requirement #10 and be prepared to discuss this topic with your counselor at the first class. Your homework between the two classes will be to prepare a brief outline of that career notating what you have learned about qualifications such as education, skills, and experience necessary to excel in that career. This written outline shall be submitted it at the beginning of the second class. This outline should be no more than one page.

Photography

- Bring your current, up-to-date Cyber Chip to the first session. <http://www.scouting.org/cyberchip.aspx>
- Identify three career opportunities in photography. Be prepared to explain one that interests you, how to prepare for such a career, and what education and training is required.
- Bring a camera, we will be taking pictures during class.
- Bring a notebook and pencil (be prepared).

Public Health

- No prerequisites for this merit badge

Scouting Heritage

- Requirement #5 - Complete #5 to report at session 2. Interview 2 people
- Requirement #6 - Bring a collection to session 2
- Requirement #7 - Complete or research #7 for 2nd session
- Requirement #8 - Complete #8 to report out at session 2 interview 2 people

Signs, Signals and Codes

Complete the following requirements at home. Bring the products of your efforts to **the second session** to show the counselor:

- Requirement #5a - Either by sight or by touch, identify the letters of the braille alphabet that spell your name.
- Requirement #5b - Create a message in braille at least six words long and share this with your counselor.
- Requirement #7 - On a Scout outing, lay out a trail for your patrol or troop to follow. Cover at least one mile in distance and use at least six different trail signs and markers. After the Scouts have completed the trail, follow no-trace principles by replacing or returning trail markers to their original locations.
- Requirement #9c - Give examples of your favorite 10 text symbols or emoticons. Then see if your counselor or parent can identify the meaning or usage of each symbol.
- Requirement #10 - Make up your own secret code and write a message of up to 25 words using this code. Share the message with a friend or fellow Scout. Then share the message and code key with your counselor and discuss the effectiveness of your code.

Space Exploration

Obtain the merit badge pamphlet for this badge and read it. ***Please do prerequisites and bring it to the first session of the College. (Requirement #3 can be the 2nd session)***

- Requirement #2. Design a collector's card, with a picture on the front and information on the back, about your favorite space pioneer. Share your card and discuss four other space pioneers with your counselor. ***Must be turned in on the first session of Merit Badge College!!***
- Requirement #3. Build, launch, and recover a model rocket. *
- Requirement #5. Do TWO of the following:
 - a. Discuss with your counselor an unmanned space exploration mission and an early manned mission. Tell about each mission's major discoveries, its importance, and what we learned from it about the planets, moons, or regions of space explored.
 - b. Using magazine photographs, news clippings, and electronic articles (such as from the Internet), make a scrapbook about a current planetary mission.
 - c. Design a robotic mission to another planet, moon, comet, or asteroid that will return samples of its surface to Earth. Name the planet, moon, comet, or asteroid your spacecraft will visit. Show how your design will cope with the conditions of the planet, moon, comet, or asteroid environment.
- Requirement #7. Design an inhabited base located within our solar system, such as Titan, asteroids, or other locations that humans might want to explore in person. Make drawings or a model of your base. In your design, consider and plan for the following:
 - a) Source of energy
 - b) How it will be constructed
 - c) Life-support system
 - d) Purpose and function

* - we will cover all other aspects of requirement #3 in class. We are typically not permitted to launch where MBC is held and the time constraints of building the rocket. I am willing and able in any way to help facilitate this.

Covered in class - Identify and explain the following rocket parts:

- A) Body tube B) Engine mount C) Fins D) Igniter E) Launch lug
F) Nose cone G) Payload H) Recovery system I) Rocket engine

Surveying

- No prerequisites for this merit badge
- Please dress warm you will be going outdoors

Sustainability

- Complete requirement #1 – Scouts should bring their household's most recent water and energy bills to class. (Energy bill means how you heat and supply power to our home, it could be a combination of electricity, natural gas, propane, solar, and/or fuel oil). Scouts need to define a baseline for their household's water and energy usage.

Weather

All homework will be assigned and due by the start of the 2nd class session. Worksheets can be obtained from the Google classrooms for each period.

- Requirement #5: Cloud ID worksheets from Classroom
- Requirement #7: Short 2-3 paragraphs on the worksheets found online.
- Requirement #8: Can be completed via the worksheets online
- Requirement #9A: Instrument & Weather tracker. **Yes both ARE required**
- Requirement #10: Prepare 3 short paragraphs and submit to instructor. Speech to group not required.

Wilderness Survival

- Read the MB book and be familiar with the material. The course material taught in class will expand the subject matter in the book.
- To demonstrate an understanding of the knowledge in the MB book, bring a day pack that is properly packed for a long day hike with items you would want to have if an emergency occurred and the day hike turned into an overnight trip. What would you eat? What would keep you warm and dry? What would help you signal for help?
- Build a survival kit. For perspective, the kit should be something the Scout carries in their day pack when hiking in the wilderness. Bring as many items as you can. Consider reuse of items for multiple purpose. Assume that these are the items you would want to have if the outing turned out to be overnighter, unexpectedly.