

Merit Badge	Pre-Class Requirements
American Business	No pre-class requirements
Architecture	<ol style="list-style-type: none"> 1. Requirement 1.A.3 - Tour your community and make a sketch of a building you admire and take a photo of the same building with the same view point. 2. Requirement 2.a - Look up and define "Sustainable Architecture" 3. Requirement 4 - measure a room, your favorite room, and make an accurate scaled sketch of the room include walls, doors, windows, etc. Use grid paper provided in the Architecture merit badge booklet.
Art	<p>1- Print out the Art Merit Badge Workbook and bring to Class (http://www.MeritBadge.org)</p> <p>2- To fulfill Requirement 6, with your parent's permission, visit a museum, art exhibit, or art gallery and write on worksheet what you learned. Must be completed before last day of MBU for credit. If you are unable to attend a show, the councilors will show some of their professional work for discussion in class to fulfill this requirement.</p> <p>3- Bring a favorite object to class and we will render in 4 different ways (pencil, charcoal, pastels, watercolor) Make sure it is not too detailed or complex as we have limited time in class to complete.</p> <p>4- Please bring \$1 for an Art material fee as the materials will be provided for you. (to be collected before or after first class)</p>
Auto Maintenance	No pre-class requirements
Aviation	No pre-class requirements
Bird Study	<p>Notebook w/ pen and pencil,</p> <p>Binoculars if already owned,</p> <p>Bird field guide if already owned</p> <p>Weather permitting be prepared to walk outside. (If this is permitted by BSA and council.)</p>
Bugling	<p>Expectations –ALL Participants should already play the Trumpet/Coronet on a regular basis, or at minimum a Brass Instrument. We will not be teaching students how to play their instrument. Badge requirements state that a Bugle, Trumpet or Coronet may be used to meet Badge requirements. Scouts working on this badge must play and have ready access to one of the above instruments. Use of other instruments will not be permitted</p> <ol style="list-style-type: none"> 1) Scouts are required to bring either a Bb Trumpet or Scout/Military modern G Bugle – Class will be taught in the key of G which will make it easier for the Scouts to play and keep them from tiring out through the long day. 2) Pocket Trumpets, "replica" civil war bugles, will not be acceptable. These instruments are poor quality, harder to play and not necessarily in the correct key. <p>Here is an example of a decent quality affordable G Bugle (I own one) if they are looking to make a purchase (not required)</p> <p>http://www.scoutbugle.com/Centennial.html</p> <ol style="list-style-type: none"> 3) Get familiar with the basic bugle calls and practice them between now and MBU. Do not wait until the class to "learn the calls". We will certainly work on them more and hopefully perfect them, but this is something that must be done in advance. They can find the requirements for

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	<p>the badge with links to each of the songs below (written music and mp3 files) at http://usscouts.org/usscouts/mb/mb032.asp</p> <ul style="list-style-type: none"> • First Call • Reveille • Assembly • Mess Call (meal time) • To the Colors • Retreat • Taps <p>These will be the main calls to learn. There are about 8 more that we will review so that they know what each is used for, however these 7 are what Scouts will be tested on for the badge.</p>
Chemistry	<p>There are no formal prerequisites for the chemistry merit badge. However, in order to ensure the merit badge is completed by the end of MBU it would be wise if scouts completed the following requirements at home.</p> <p>#1: parts A, B, D #4: part B #5 #6 #7 choosing part A, B, C, or D.</p>
Chess	<p>Scouts should bring their own chess sets. It doesn't have to be fancy but it should be complete.</p>
Citizenship in the Community	<p>2a. Bring a map of your community. Often you can find one on-line that you can print out. It should have enough roads labeled so that you can clearly identify areas of town to locate specific buildings upon it.</p> <p>2b. Bring a print-out of all the town boards/committees/officials. Often you can find one on your town's website or by contacting the Town Clerk's office. You will need this list to create your organizational chart. As such, make sure you know which of those town boards/committees/officials are either elected or appointed (and why whom).</p> <p>3a. Attend a meeting in your town as described in the MB requirements. It would be acceptable to watch such a meeting via your local access cable or the internet if your viewing was focused and you took diligent notes. If you attend the meeting, have someone from the meeting simply sign a copy of the meeting's agenda (or other note) to indicate you attended. If you watch the meeting at home, bring a note from a parent to document that you watched it.</p> <p>4a. Choose an issue in your community that is important to you and begin your research. The organizational chart you are going to create for requirement 2b will be a big help with this research!</p> <p>7a. Choose an organization in your community that helps the community and that you feel is worth your time and effort to assist.</p>
Citizenship in the Nation	<p>Expectations:</p> <ol style="list-style-type: none"> 1. Scouts should complete requirements 2 and 3 prior to MBU. 2. Review the pamphlet on Citizenship in the Nation which is where most of the answers for the workbook will come from. 3. Scouts should print their workbooks and bring them to class available at: http://usscouts.org/mb/worksheets/Citizenship-in-the-Nation.pdf

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	<p>Scouts should bring to class:</p> <ol style="list-style-type: none"> 1. Merit Badge Pamphlet 2. Workbook <p>Work Scouts should do prior to class:</p> <ol style="list-style-type: none"> 1. Complete requirements 2 and 3 before MBU. 2. Review the pamphlet on Citizenship in the Nation which is where most of the answers for the workbook will come from. 3. Read the material at: https://www.mayflowerbsa.org/wp-content/uploads/Citizenship-Skills.pdf
Citizenship in the World	<p>Note: Different counselor have different requirements. Below are the pre-class requirements by Class Section.</p> <p>Section A:</p> <ol style="list-style-type: none"> 1) We want scouts to document the requirements on BSA CIT worksheets https://meritbadge.org/wiki/images/0/09/Citizenship_in_the_World.pdf 2) We expect each scout to have the merit badge book or have downloaded it for reading and reference https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/Citizenship_in_the_World.pdf 3) Requirements done for day one of class 4) Plan on no internet access during the course for work 5) Req. 1 Have the work/knowledge done to lead the topic 6) Req. 3 A+B as these are detailed questions that the scout will not have access to during the course, and we do not want then doing this work during class discussions. 7) Req. 4 Gather the data so you are ready to discuss the answer completely. 8) Req. 7 as these are detail questions that the scout will not have access to during the course, and we do not want then doing this work during class discussions. Usually, I have the scout present one of his choices to the group in 2-3 minutes. <p>-----</p> <p>Section B:</p> <p>Note: For those in Section "B" there are no pre-class requirements.</p> <p>-----</p> <p>Section C:</p> <ol style="list-style-type: none"> 1. Merit Badge Pamphlet (bring to classes) - Borrow from a Scout in your troop that completed the Merit Badge or borrow from your troop library or purchase from Scoutshop.org or an actual Scout Shop 2. Read as much of the Pamphlet as you can before the first class and complete reading by the end of MBU 3. Print the Workbook (bring to classes) and fill in as many requirements as you can before the first class and complete by the end of MBU 4. Before the first class the Scout MUST complete requirement 3 and 4 and be prepared to present to the class. 5. The first class will cover requirements 1-4 and Scouts will lead by giving and discussing the answers during class 6. Before the second class the Scout MUST complete requirement 7 and be prepared to present to the class.

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	7. The Second class will cover requirements 5-7 and Scouts will lead by giving and discussing the answers during class.
Climbing	No pre-class requirements
Collections	<p>Prepare a short written report or outline for your counselor, giving a detailed description of your collection*, including a short history. Be sure to include why you chose that particular type of collecting and what you enjoy and have learned from your collection.</p> <p>Discuss with your counselor at least 10 terms commonly used in your collection and be prepared to discuss the definition of each. (write list)</p> <p>Show your counselor 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 your counselor is unable to view your collection directly, photographs should be available to share.) 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.</p> <ul style="list-style-type: none"> • Since Stamp Collecting and Coin Collecting are separate badges, those collections are not allowed for the Collections badge.
Communications	Please complete the following Communications merit badge requirements prior to class 2A or 2B, 5, 6 and 8
Cooking	No pre-class requirements
Crime Prevention	No pre-requisites. There will be a field trip. The counselor will email details when they are available.
Digital Technology	Scouts should come to the first session with their up to date Cyber Chip Card, and be prepared to discuss all requirements. There will be homework between sessions to work on requirements 5b-c, 6, 7c, 8c, and 9a.
Disability Awareness	<p>#2a) find out what Independent Living Center serves their community - https://www.masilc.org/membership/cils</p> <p>#2b) find out about the Independent Living Center</p> <p>#2c) Learn about opportunities its members have</p> <p>#4) take notes about their location that hosts their scouting meetings and how the accessibility is for people with disabilities - we will take a walk in the building during the second part of the MBU to look at different architectural access features and possible barriers to people with disabilities</p> <p>#5) bring a list of myths and misconceptions about people with disabilities</p>
Electricity	No pre-class requirements
Electronics	<p>Welcome to the wonderful world of electronics! The scouts will learn in this Merit Badge:</p> <ul style="list-style-type: none"> • How electronic components work. • They will learn what each component can do.

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	<ul style="list-style-type: none"> ☉ They will learn how to solder electronic parts. ☉ They will build an electronics' kit. ☉ But, most of all they will have a lot fun! <p>Scott Ames is a graduate of Northeastern University B.S Electrical Engineering program and will be teaching this session.</p> <p>The kids will learn about electronics in these coming weeks and I will be forwarding tutorials in the weeks coming in future emails. The kids will need to buy and assemble an electronic kit from Amazon. This is the kit that I recommend buying. At the time I am writing this email, the Amazon price is showing as \$14.87</p> <p>http://www.amazon.com/gp/product/B0009Z3JJA/ref=oh_aui_detailpage_o00_s00?ie=UTF8&psc=1</p> <p>PLEASE ORDER THIS AS SOON AS POSSIBLE! These kits can take a couple of weeks to arrive. The kit should take about 3 to 4 hours to complete.</p> <p>The Amazon description of a robot is incorrect, it is actually an alarm. I feel this is an excellent choice as it not only consists of an easy-to-assemble electronic alarm circuit, but the kit comes with a soldering iron, solder and all the tools they need to assemble the kit. It also teaches them how to solder and even provides practice space on the circuit board to use until they are confident enough to tackle the actual circuit.</p> <p>For those who may already have a soldering iron and tools, the same kit can be ordered without the iron and tools for \$11.99 at this address: http://www.amazon.com/gp/product/B0002LUAL6/ref=oh_aui_detailpage_o00_s00?ie=UTF8&psc=1</p> <p>The solder that comes with the kit is not that good. I would strongly recommend buying the good solder. It is not necessary but nice to have. It will make the assembly of the kit go much easier.</p> <p>The Amazon Price is: \$2.66 https://www.amazon.com/Kester-83-4000-0000-Solder-Pocket-Diameter/dp/B00068IJNQ/ref=sr_1_fkmr0_3?s=hi&ie=UTF8&qid=1482891614&sr=1-3-fkmr0&keywords=Pocket+Pack+Solder+60%2F40+0.031+0.71+oz.+Tube</p> <p>I am including a link on what we will cover for the first class. This video covers basic Electronic components and it can be found here. It is a nice to watch but not required because we will be covering this in class: https://www.youtube.com/watch?v=f3uip7lvvPM</p> <p>Best of luck and hope you enjoy the Electronics Merit Badge!</p> <p>Thank you</p>
Emergency Prep	<p>THIS MERIT BADGE REQUIRES THAT YOU HAVE COMPLETED THE FIRST AID MERIT BADGE TO EARN THE BADGE.</p> <p>Here is some basic homework prior to starting the class.</p> <ol style="list-style-type: none"> 1. Bring in your First Aid merit badge card, to be able to complete this merit badge you must have completed First Aid merit badge otherwise it is an automatic partial. 2. You will need the merit badge pamphlet. 3. Useful links: Summary of Requirements and a worksheet you need to print and bring with you. <p>This is our outline so you can manage the work to be completed outside of class.</p>

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	<p>Week 1 Prep</p> <p>Please come prepared to discuss these words as they related to Emergency Preparedness: Prepare, Respond, Recover, Prevent and Mitigate.</p> <p>Complete the following requirements:</p> <p>6a. Describe the National Incident Management System (NIMS)/Incident Command System (ICS). 6b. Identify the local government or community agencies that normally handle and prepare for emergency services similar to those of the NIMS or ICS. Explain to your counselor ONE of the following:</p> <ol style="list-style-type: none"> 1. How the NIMS/ICS can assist a Boy Scout troop when responding in a disaster 2. How a group of Scouts could volunteer to help in the event of these types of emergencies <p>Week 1 Class:</p> <p>Complete 1.</p> <p>We will start 2b in class we will do 1 - 5</p> <p>We will complete 3, 4, and 5.</p> <p>Week 1 Homework:</p> <p>Complete the following requirements:</p> <p>2b. Make a chart that demonstrates your understanding of each of the aspects of emergency preparedness in requirement 2a (prepare, respond, recover, prevent, and mitigate) with regard to 10 of the situations listed below. You must use situations 1, 2, 3, 4, and 5 below in boldface, but you may choose any other five listed here for a total of 10 situations. Discuss this chart with your counselor.</p> <ol style="list-style-type: none"> 1. Home kitchen fire 2. Home basement/storage room/garage fire 3. Explosion in the home 4. Automobile crash 5. Food-borne disease (food poisoning) 6. Fire or explosion in a public place 7. Vehicle stalled in the desert 8. Vehicle trapped in a blizzard 9. Flash flooding in town or the country 10. Mountain/backcountry accident 11. Boating or water accident 12. Gas leak in a home or a building 13. Tornado or hurricane 14. Major flood 15. Toxic chemical spills and releases 16. Nuclear power plant emergency 16. Avalanche (snow slide or rockslide) 17. Violence in a public place <p>2c. Meet with and teach your family how to get or build a kit, make a plan, and be informed for the situations on the chart you created for requirement 2b. Complete a family plan. Then meet with your counselor and report on your family meeting, discuss their responses, and share your family plan.</p> <p>6c. Find out who is your community's emergency management director and learn what this person does to prepare for, respond to, recover from, prevent, and mitigate emergency situations in your community.</p>

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	<p>Discuss this information with your counselor and apply what you discover to the chart you created for requirement 2b.</p> <p>7b. Prepare a written plan for mobilizing your troop when needed to do emergency service. If there is already a plan, explain it. Tell your part in making it work.</p> <p>8b. Prepare a personal emergency service pack for a mobilization call. Prepare a family kit (suitcase or waterproof box) for use by your family in case an emergency evacuation is needed. Explain the needs and uses of the contents. Pictures are good for this.</p> <p>9. Do ONE of the following:</p> <p>a. Using a safety checklist approved by your counselor, inspect your home for potential hazards. Explain the hazards you find and how they can be corrected.</p> <p>b. Review or develop a plan of escape for your family in case of fire in your home.</p> <p>c. Develop an accident prevention program for five family activities outside the home (such as taking a picnic or seeing a movie) that includes an analysis of possible hazards, a proposed plan to correct those hazards, and the reasons for the corrections you propose.</p> <p>Week 2 Class: We will review the homework We will complete 7a and 8a in class</p>
Engineering	<p>Pre-Work</p> <ul style="list-style-type: none"> All pre-work should be completed before arriving to MBU (if not it cannot be signed off). Any pre-work not done will have to be done later and approved at a later date Scouts should have a copy of the Engineering merit badge book and are expected to have read the book as it is the basis for completion of in-class requirements and to bring it to class. Scouts should have a blue card opened in Scout book – see your advancement coordinator <p>Before MBU</p> <p>Please work on the following requirements:</p> <p>Requirement 1:</p> <ul style="list-style-type: none"> Investigate how an item in your home works and why Find out what kind of engineering activities were needed to create it Bring a minimum 1 page set of notes with your findings and any questions to MBU (pictures/sketches are even better) <p>Requirement 2:</p> <ul style="list-style-type: none"> Bring a 1 page summary of the engineering achievement you researched <p>Requirement 3:</p> <ul style="list-style-type: none"> Bring a 1 page summary explaining the 6 types of engineers and how two of them have interrelated work <p>Requirement 5:</p> <ul style="list-style-type: none"> Complete one of the 2 options and bring a 1 page summary, drawings, or models to MBU <p>Requirement 6:</p> <ul style="list-style-type: none"> Bring a list of 10 Electrical devices in your home Record the following for each (ask your parents for help) <ul style="list-style-type: none"> Rated Watts, Amps, Voltage (usually on a tag on the device or on the power supply) Cost of electricity – usually on the electric bill in \$/KWh, There is also a supply charge, so that would be interesting as well.

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	<ul style="list-style-type: none"> • Write up five ways to better conserve energy and bring a 1 page summary to class • A second topic is needed for completion of requirement 6. A suggestion is to choose (c), Understanding Electronics, and to bring a 1-page summary explaining how the device (smartphone or like) was designed for ease of use, function, and durability. We will review and discuss in class. <p>Requirement 8:</p> <ul style="list-style-type: none"> • Bring a 1 paragraph summary <p>Requirement 9:</p> <ul style="list-style-type: none"> • Bring your questions about engineering as a career so we can discuss them
Environmental Science	<p>In order to make this class as enjoyable and engaging as possible, it is recommended that Scouts read the merit badge pamphlet and complete requirements prior to each class. At a minimum, Scouts will need to complete their workbooks, scan them, and email them to me after the last class in order to earn the merit badge during merit badge university. We will be having a field day on March 14th (if this is not used as a snow day) or March 28th (if the 14th is a snow day) to complete requirement 4.</p> <p>Day 1 Class 1: Scouts should complete the following requirements on their own prior to our first class: 1, 2,</p> <p>Day 1, Class 2: Scouts should pick OR complete what they will do for requirement 3</p> <p>Day 2, Class 3: Scouts should: Complete requirement 3, 5, 6</p> <p>The location of the field trip for requirement 4 will be selected based on the home locations of the Scouts in the class.</p>
Family Life	<p>There are no specific pre-class requirements. However, Scouts can get a head start on the 90 day chore chart (Req. 3) with Merit Badge Counselor approval of their chores before the start of MBU. They need to provide at least 5 chores, a combination of daily and weekly activities. Chore charts with a start date prior to MBU without MBU Merit Badge Counselor approval must have written approval from the Scoutmaster or Troop Advancement Chair.</p> <p>Scouts can also get approval from a parent for the Individual Project (req 4) and Family Project (reg 5) but need Merit Badge Counselor approval before beginning the project.</p> <p>Please bring in approval notes from the above adults if you started those requirements.</p>
Fingerprinting	No pre-class requirements
First Aid	<p>Welcome to a fantastic course taught by a veteran team of first responders, paramedics, firefighters, doctors, nurses and EMTs who would be hard to replicate at the troop level. Please arrive 15 minutes before class as it takes a few minutes to get organized.</p> <ol style="list-style-type: none"> 1. To get this badge, all of the first aid requirements in your scout book under Tenderfoot, 2nd Class and 1st Class must be checked off. This is basic stuff you should be familiar with before taking the merit badge. Even if you have not achieved these ranks, your troop should help you complete these requirement. Bring your scout book or some evidence to show this to your instructor. 2. You will have to supply your own merit badge booklet. The requirements changed in 2/2018 but the content is the same as before, just rearranged. So get one and open it up to see what you will need. It takes time to go shopping and accumulate all the stuff you will need for your home first aid kit. I had to go to several places to find everything and

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	<p>ended up investing over 50 bucks but this is an investment for your home! Some things like breathing barriers are easier to find on amazon than in CVS. Please see the First Aid Kit equipment contents below.</p> <p>Bring your kit to the first session so your counselor can check off the items against the list. If you miss something you still have another session to make it up. This takes time so don't wait until the last minute, as there are 3 or 4 other scouts at your table doing the same thing.</p> <p>3. Attendance and table assignments: You will receive an email as well as a posting of your table assignment next to the entrances to the cafeteria. Each table will have 4-6 scouts and an instructor, who will keep track of your progress and lead the first aid /CPR drills. If you sit at the wrong table you will be marked absent, since we don't know you. To help with this, each table will have sticky labels please write your full name on one of these and paste it on the front of your shirt each session. Later you will be moving around in groups with different instructors who will not know who you are without the name tag.</p> <p>4. The most common reasons you might get a partial in first aid:</p> <ul style="list-style-type: none"> - You didn't show up for a session - You didn't complete item 1 above. (showing you completed First Aid requirements for ranks up to 1st Class) - You didn't have a complete first aid kit - <p>5. Questions? Call or e mail me. Mr. Robert (Bob) Peoples at 508-238-8563 or email majorpeeps@verizon.net. (I am the admin organizer for First Aid)</p> <p>6. Your First Aid Kit contents need to include:</p> <p>.</p> <p>1- Roller bandage ,2 in (1) -these are rolls of gauze used to wrap burns and large wounds</p> <p>2- Roller bandage, 1 in(2) - same idea</p> <p>3- Adhesive tape, 1 in -one roll</p> <p>4- Alcohol swabs (24) - come in little sealed packs</p> <p>5-Assorted adhesive bandages - 1 box -band aids</p> <p>6- Elastic bandages, 3 in wide (2) - ace bandages used for sprains, splints</p> <p>7. Sterile gauze pads (12) 3x3-used to cover burns, abrasions. Telfa or similar non-stick pads work better.</p> <p>8-Moleskin, 3x6in (4)- used to prevent blisters from getting worse.</p> <p>9. Gel pads for blisters and burns, 2 packets</p> <p>10. One tube triple antibiotic ointment</p> <p>11. Triangular bandages (4)- should be big enough to make a sling, rip up an old bedsheet as the ones</p> <p>For sale are not very large.</p> <p>12. Soap (1 small bar) or hand sanitizer gel(small bottle)</p> <p>13. Scissors, one pair</p> <p>14. Tweezers, one pr. Best to get sharp pointy ones to remove ticks. Amazon has them if drugstore doesn't.</p> <p>Plastic ones in commercial first aid kits are useless.</p> <p>15. Big safety pins (use to make t shirt slings) (12).</p>

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	<p>16. Non latex disposable gloves (6 pair) - harbor freight, Lowes...</p> <p>17. Protective goggles, safety glasses - harbor freight, job lot, and dollar store.</p> <p>18; CPR breathing barrier (1) - amazon, most drug stores won't have them for cheap.</p> <p>19. Pencil and paper so you can note when you started first aid procedures like CPR</p> <p>You will spend about \$50-\$60 for a good home first aid kit, but it is for you and your family.</p> <p>I was able to find most everything at Walmart or Ocean State job lot except for the good Tweezers and CPR barriers. If you start now you can get them from Amazon in a few days.</p> <p>I will bring a fold out display of all these items if you have any questions. It does take some time for the Counselor to go over each scout's kit. He/she will ask you to show each item so use a container</p> <p>Where they can be found quickly. We found the transparent plastic boxes work well</p>
Fly Fishing	<p>A. Ability to cast a bait casting or spinning rod.</p> <p>B. You will need to bring the following items to all classes: a balanced fly rod outfit which includes fly rod, fly reel and fly line with a tapered leader.</p> <p>C. You will also need a fly tying vice, sharp small scissors, tying bobbin, black tying thread, clear cheap nail polish and a dubbing needle.</p> <p>D. You will need The Fly Fishing Merit Badge Book .It is your most important resource.</p> <p>MBU will provide hooks and tying materials.</p> <p>We have a few extra vices if necessary.</p> <p>Inexpensive fly rod outfits and TYING TOOLS can be purchased at "BEARS DEN ' TAUNTON, MA," BASS PRO". FOXBORO, "CABELA'S" HUDSON THE ORVIS CO. AND LL BEAN ON THE INTERNET.</p> <p>You can also borrow these items from parents and friends.</p> <p>We will do a fishing trip to the Wrentham Sportsman's Club located just off Route 1 North from Route 495.</p> <p>The trip will be in addition to the MBU scheduled days and depending on ICE OUT conditions.</p>
Game Design	No pre-class requirements submitted by counselor
Gardening	No pre-class requirements
Genealogy	#4b Obtain at least one genealogical document that supports an event that is or can be recorded on your pedigree chart.
Home Repairs	<p>1. For the First Session come prepared to DO the following:</p> <p>a. Explain to your counselor the most likely hazards you may encounter while working on home repairs and what you should do to anticipate, mitigate and prevent, and respond to these</p>

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	<p>hazards. Describe the appropriate safety gear and clothing that should be used when working on home repairs.</p> <p>b Discuss general precautions related to home repairs. Name at least 10 safe practices that every home repairer should exercise.</p> <p>The Home Repairs workbook is available to read or download here; http://usscouts.org/mb/worksheets/Home-Repairs.pdf</p> <p>It is okay to fill in the answers in the workbook, but you must read them out loud to the counselor.</p> <p>If you have them, please bring safety glasses to the class sessions. One item we will offer is to build a tool box that satisfies one of the requirements. If you're interested, the cost is \$15.00 for materials; we will build them on the second day. Please bring payment the first day if you're interested.</p>
Indian Lore	<p>COMPLETE BEFORE FIRST SESSION:</p> <p>Requirement #5(a) Write or briefly describe how life might have been different for the European settlers if there had been no native Americans to meet them when they came to this continent. OR Requirement #5(i) Attend a contemporary American Indian gathering. Discuss with your counselor what you learned and observed. Include in your discussion any singing, dancing, drumming, and the various men's and women's dance styles you saw. (Counselor will accept gatherings/pow-wows attended within the past three years as long as Scout can remember and discuss details above).</p> <p>Please watch the Scholastic video about the Wampanoag Home site at Plimoth Plantation: https://www.scholastic.com/teachers/videos/teaching-content/wampanoag-homesite-video-tour/</p> <p>Scouts are encouraged to bring photos or small items related to their own knowledge or experience with Native American culture to share with the group. They must be kept with the Scout (e.g. in a backpack) throughout the day and cannot be left with the Merit Badge Counselor.</p>
Inventing	No pre-class requirements
Journalism	<p>FOR FIRST SESSION</p> <p>Requirement #2: On the same day, read a local newspaper, a national newspaper, a newsmagazine and an online news source. Clip/copy, read and compare a story about the same subject. Be prepared to discuss in class. OR On the same day, watch a local newscast and a national newscast and listen to a radio newscast and view a national broadcast news site online. Be prepared to compare the amounts of time devoted to each story in class.</p> <p>FOR SECOND SESSION</p> <p>Requirement #3: Write a hard news article or a feature article (geared to either print or broadcast media) about a current event or an unusual event that interests you. Bring the article to class. OR Interview someone in the community who is influential and present an oral or written report in class. OR Read a biography of a journalist and write an article about him/her. OR Attend a Scouting event and write a 200-word article about it.</p> <p>Requirement #4: Attend a public event and do one of the following: write two different articles about it using the inverted pyramid style and the chronological style. OR Use radio/TV style to write a news story and a feature story about the event. OR Take a series of photos to tell the story in</p>

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	<p>pictures. Bring photos to class.</p> <p>Requirements #1, #2 (visit), #3 (hard news and feature stories; the 5 “Ws”), and #5 will be covered within classes.</p>
Law	Complete requirements 2 & 3 before March 2 & 9.
Medicine	<p>All of the Medicine requirements can be completed in the 2 sessions EXCEPT for serving as a volunteer at a health-related event (requirement 10). This is most commonly accomplished by volunteering at a Red Cross blood drive. Times and locations are on the internet. They are quite used to volunteers arriving for community service. 1 or preferably 2 hours suggested, written verification from personnel at the site, suggest prior to the sessions so that I can sign off on the badge directly.</p> <p>Bert Fullerton, any questions 617-899-0692.</p>
Model Design	Bring writing/drawing materials (pen/pencil/paper...) along with ideas of models you would like to build.
Moviemaking	No pre-class requirements submitted by counselor
Music	<p>Before the first class, please read through the Music merit badge booklet.</p> <p>For Requirement 1: If you play an instrument, please bring it to class along with a simple piece of music to play. If you play piano, please bring a piece of simple music to play; a piano will be in the classroom. If you sing, please bring a simple song to sing or you can sing “De Camptown Races” by Stephen Foster which will be provided in class.</p> <p>Complete Requirement 2 – Name the five general groups of musical instruments. Create an illustration that shows how tones are generated and how instruments produce sound. Bring the illustration to class.</p> <p>Before the first class, look at Requirement 3 and decide on which 2 sub requirements you will do. Also, look at Requirement 4 and decide which sub requirement you will do.</p>
Nature	<p>Expectations/Assumptions: Present homework to instructor (kept in notebook). Students are expected to stay with the group during walks around school grounds.</p> <p>What scouts needs to bring to class. Come to class with gloves, hat, jacket and boots. Class will venture out into the surrounding grounds to identify leaves, animal, birds, other. Notebook and pencil/pen are a must.</p> <p>Before the 1st class Answer questions 1 and 2 and D1. Be prepared to discuss 3. This is for class one.</p>
Nuclear Science	<p>For the nuclear science merit badge, the prerequisites will be to read about Requirements 1a, 1b, 1c, 2a, and 3b either in the Nuclear Science Merit Badge Pamphlet (https://www.scoutshop.org/catalog/product/view/id/5343) or by other means of research and write their findings on the Nuclear Science Merit Badge Worksheet</p>

Merit Badge	Pre-Class Requirements
	(https://meritbadge.org/wiki/images/f/fa/Nuclear_Science.pdf), which they should bring to class at MBU.
Oceanography	No pre-class requirements
Personal Fitness	No pre-class requirements
Personal Management	<p>In order for the scout to complete the badge in a timely manner they need to complete requirement 2. 9 and 10.</p> <p>2. Do the following:</p> <p>a. Prepare a budget reflecting your expected income (allowance, gifts, and wages), expenses, and savings. Track and record your actual income, expenses, and savings for 13 consecutive weeks. (You may use the forms provided in this pamphlet, devise your own, or use a computer generated version.) When complete, present the records showing the results to your merit badge counselor.</p> <p>b. Compare expected income with expected expenses.</p> <p>1. If expenses exceed income, determine steps to balance your budget.</p> <p>2. If income exceeds expenses, state how you would use the excess money (new goal, savings).</p> <p>9. Prepare a written project plan demonstrating the steps below, including the desired outcome. This is a project on paper, not a real-life project. Examples could include planning a camping trip, developing a community service project or a school or religious event, or creating an annual patrol plan with additional activities not already included in the troop annual plan. Discuss your completed project plan with your merit badge counselor.</p> <p>a. Define the project. What is your goal?</p> <p>b. Develop a timeline for your project that shows the steps you must take from beginning to completion.</p> <p>c. Describe your project.</p> <p>d. Develop a list of resources. Identify how these resources will help you achieve your goal.</p> <p>e. Develop a budget for your project.</p>
Pets	<p>1. Requirement 1 - Bring evidence of taking care of pet for 4 months. A form has been provided for your parent/guardian to sign off on. Bring in a picture of you and your pet (printed please).</p> <p>2. Requirement 3 – Bring in the pamphlet/book for your pet’s care. Your book/pamphlet must be approved. Read your approved pets literature.</p>
Photography	<p>Expectations/Assumptions:</p> <ul style="list-style-type: none"> • You will need a camera that allows the adjustment of Aperture (f/Stop), Shutter Speed, and ISO. • You should be familiar with the camera and know how to change the above settings. • We will be taking photos in class for requirements 4 and 5 on the first day of class. <p>Bring to class on first day:</p> <ul style="list-style-type: none"> • Bring your camera, fully charged battery and memory card. • Bring extra camera battery if you have one. (fully charged) • Bring a Flash attachment for camera if you have one. • Bring notepad and pencil/pen for note taking. • Bring your Cyber Chip certificate or signed note from Scoutmaster or Advancement Chair that Cyber Chip is current. • Bring your Photography merit badge booklet (2016 version)

Merit Badge	Pre-Class Requirements
	<p>Preparation before first class:</p> <ul style="list-style-type: none"> • Read the Photography merit badge pamphlet. <ul style="list-style-type: none"> ○ Be especially familiar with requirements 1 through 3 before you arrive. • Read pages 49 – 57 in the Photography MB pamphlet. <ul style="list-style-type: none"> ○ Choose a story you wish to tell with your photos. ○ Plan the images you will use in telling your story (Requirement 7a) ○ Bring your written plan/story board to the first session to share with your counselor (Requirement 7b) • Become familiar with your camera by practicing taking pictures prior to class.
Pioneering	<p>NOTE: SCOUTS MAY NOT BRINK KNIVES TO THE MERIT BADGE UNIVERSITY PER SCHOOL POLICY!</p> <p>Each Scout should bring to each Class Session:</p> <p>(3) 12' long pieces of Manila Rope (1/4" or 3/8" diameter)</p> <p>Copy of Pioneering MB Pamphlet</p> <p>Scout Handbook</p> <p>Prior to the First Session on March 7th, each Scout should have a thorough working knowledge of all knots and splices listed in Requirements 2a and 2b as listed in Scout book. (these are listed differently than the MB Pamphlet)</p> <p>Prior to the Second Session on March 21st, each Scout should have a thorough working knowledge of all lashings listed in Requirements 2c as listed in Scout book. (these are listed differently than the MB Pamphlet)</p> <p>Due to the volume of information that needs to be covered, each Scout should have read and understood all information contained in the MB Pamphlet prior to this course. Any Scout that cannot demonstrate each knot / splice / lashing and has knowledge of when / where to properly use them will be issued a partial at the conclusion of the course.</p> <p>Materials:</p> <p>I will supply the twine for Whipping and rope making, rope making machine, blocks and rigging for demonstration.</p> <p>I will let the class decide what project they will build during the first session. Spar requirements will be determined then. If they decide on a bridge, I have all of the necessary ropes and rigging.</p> <p><input type="checkbox"/></p> <p>1. WE WILL DISCUSS IN THE FIRST CLASS SESSION</p> <p><input type="checkbox"/> (a) Explain to your counselor the most likely hazards you might encounter while participating in pioneering activities and what you should do to anticipate, help prevent, mitigate, and respond to these hazards.</p> <p><input type="checkbox"/> (b) Discuss the prevention of, and first-aid treatment for, injuries and conditions that could occur while working on pioneering projects, including rope</p>

Merit Badge	Pre-Class Requirements
	<p style="text-align: right;">splinters, rope burns, cuts, scratches, insect bites and stings, hypothermia, dehydration, heat exhaustion, heatstroke, sunburn, and falls.</p> <p><input type="checkbox"/> 2. MUST HAVE THOROUGH WORKING KNOWLEDGE PRIOR TO FIRST SESSION:</p> <p><input type="checkbox"/> (a) Demonstrate the basic and West Country methods of whipping a rope. Fuse the ends of a rope.</p> <p><input type="checkbox"/> (b) Demonstrate how to tie the following knots: clove hitch, butterfly knot, round turn with two half hitches, rolling hitch, water knot, Carrick bend, sheepshank, and sheet bend.</p> <p><input type="checkbox"/> (c) MUST HAVE THOROUGH WORKING KNOWLEDGE PRIOR TO SECOND SESSION Demonstrate and explain when to use the following lashings: square, diagonal, round, shear, tripod, and floor lashing.</p> <p style="text-align: center;">WE WILL DISCUSS AND DEMONSTRATE IN THE FIRST CLASS SESSION</p> <p><input type="checkbox"/> 3. Explain why it is useful to be able to throw a rope, then demonstrate how to coil and throw a 40-foot length of 1/4- or 3/8-inch rope. Explain how to improve your throwing distance by adding weight to the end of your rope.</p> <p><input type="checkbox"/> 4. Explain the differences between synthetic ropes and natural-fiber ropes. Discuss which types of rope are suitable for pioneering work and why. Include the following in your discussion: breaking strength, safe working loads, and the care and storage of rope.</p> <p><input type="checkbox"/> 5. Explain the uses for the back splice, eye splice, and short splice. Using 1/4- or 3/8-inch three-stranded rope, demonstrate how to form each splice.</p> <p><input type="checkbox"/> 6. Using a rope-making device or machine, make a rope at least 6 feet long consisting of three strands, each having three yarns. Whip the ends.</p> <p><input type="checkbox"/> 7. WE WILL DISCUSS AND DEMONSTRATE IN THE SECOND CLASS SESSION Explain the importance of effectively anchoring a pioneering project. Describe to your counselor the 1-1-1 anchoring system and the log-and-stake anchoring methods.</p> <p><input type="checkbox"/> 8. With the approval of your counselor, demonstrate and use a rope tackle. Be sure the rope tackle is secured properly. Explain the advantages and limitations of using a rope tackle. Describe the potential damage that friction can do to a rope.</p> <p><input type="checkbox"/> 9. By yourself, build a trestle using square and diagonal lashings. Explain why trestles are used when constructing pioneering projects.</p>

Merit Badge	Pre-Class Requirements
	<div data-bbox="363 237 423 296" style="border: 1px solid black; width: 37px; height: 28px; display: inline-block; vertical-align: middle;"></div> <p data-bbox="363 300 396 321">10.</p> <p data-bbox="599 270 1312 325">WE WILL DISCUSS IN THE FIRST CLASS SESSION AND CONSTRUCT IN THE SECOND SESSION</p> <p data-bbox="599 329 1328 470">With the approval of your counselor and using appropriate lashings and pioneering techniques, build and use one full-size pioneering project from either group A or group B. Your project must comply with the requirements of the Guide to Safe Scouting. (Requirement 10 may be done at summer camp, at district or council events, or on a troop camp outing.)</p> <p data-bbox="599 506 857 527">Group A: Tower OR bridge</p> <p data-bbox="599 562 1300 642">Anchor your project as appropriate and necessary. Explain how your anchoring system works. Group A projects may be worked on in a group and with others.</p> <p data-bbox="599 678 951 699">Group B: Camp chair OR camp table</p> <p data-bbox="599 735 1078 756">Group B projects must be worked on individually.</p>
Plumbing	No pre-class requirements
Programming	<p data-bbox="363 968 1305 1022">Programming is not intended to teach how to program; therefore, partials are very possible for scouts who have no experience programming prior to MBU.</p> <p data-bbox="363 1052 1300 1140">Scouts will need to bring a laptop computer. Scouts should also bring a copy of the Programming merit badge workbook (the first 8 pages of this document: http://usscouts.org/mb/worksheets/Programming.pdf).</p> <p data-bbox="363 1169 1317 1278">The overall requirements for the Programming merit badge are here: https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/Programming.pdf However, to complete the badge within the MBU timeframe, you'll need to complete these items before the first class:</p> <ol data-bbox="363 1287 1321 1688" style="list-style-type: none"> 1. You must already have the requirements for your "Cyber Chip" card complete, along with a signed Cyber Chip card from your Scoutmaster. <ol style="list-style-type: none"> a. More details about the Cyber Chip are here: https://www.scouting.org/training/youth-protection/cyber-chip/ b. And the form you can sign with your parents and Scoutmaster is here: https://filestore.scouting.org/filestore/youthprotection/pdf/100-055_WB.pdf 2. Research these topics, print out some references, and be prepared to discuss all of them (and show your work) in the first class: <ol style="list-style-type: none"> a. History of programming and how programming languages have evolved over time. b. Create a list of 10 programming languages that are in use today, and in what scenarios or industries each language is used. c. Describe three different devices you use each day that have software in them (are programmed) d. Find out about 3 different roles or jobs that require knowledge of Programming. (They don't have to be Software jobs specifically.) Describe what kind of education or training are required.
Public Health	<ol style="list-style-type: none"> 1. Download and print the workbook for the Public Health Merit Badge from www.meritbadge.org 2. Complete item 5b (visit a restaurant or school cafeteria) and discuss safe food handling with the chef/manager. Come prepared to discuss what you learned in the first day of class. Come prepared with pens, paper, the Merit Badge pamphlet and workbook.

Merit Badge	Pre-Class Requirements
	<p>If you have questions I can be reached at william.walker5@comcast.net Remember to copy a parent or your Scoutmaster on all emails.</p>
Public Speaking	Bring to class are a pen and the merit badge book for public speaking
Radio	<p>In order to complete the requirements by the end of MBU all scouts should do the following prior the first session:</p> <ul style="list-style-type: none"> • Get a copy of the merit badge book and read through it (note that the book was revised in 2018 so be sure you have the latest). • Read and be prepared to discuss requirements 1a through 1d. • Read and be prepared to discuss requirement 6.
Reptile and Amphibian	No pre-class requirements
Robotics	<p>Scouts complete requirements 6 and 7 prior to the MBU if they want to get signed off on the final day. We will not be going over these in class so we can concentrate more on the practical hand-on requirements for the Merit Badge.</p>
Safety	<p>Before class complete: Requirement 1. Requirement 6. Determine a project idea for requirement 6.</p> <p>The homework between weekend 1 and 2 will be Requirements 2, 3b, 4, and 6.</p>
Salesmanship	<p>1. Scouts should read the requirements in advance of class and assumption is they will be ready for an interactive discussion.</p> <p>In salesmanship, you are always gathering information to then present a solution. The scouts can expect to be doing most of the talking in this group discussion with the goal of refining their presentation at the end of the session.</p> <p>2. Scouts should come to class with an idea of a product or service that they can sell to help their unit raise funds. They should be able to discuss the initial sales plan for their product or service and any challenges they anticipate.</p> <p>3. Prior to Class: Do either A or B.</p> <p style="padding-left: 20px;">a. Interview a salesperson and learn the following:</p> <p style="padding-left: 40px;">i. What made the person choose sales as a profession? ii. What are the most important things to remember when talking to customers? iii. How is the product or service sold? iv. Include your own questions.</p> <p style="padding-left: 20px;">b. Interview a retail store owner and learn the following:</p> <p style="padding-left: 40px;">i. How often is the owner approached by a sales representative?</p>

Merit Badge	Pre-Class Requirements
	<ul style="list-style-type: none"> ii. What good traits should a sales representative have? iii. What habits should the sales representative avoid? iv. What does the owner consider when deciding whether to establish an account with a sales representative? v. Include at least two of your own questions. <p>From the research in A or B above write and present a sales plan for a product or service</p>
Scholarship	<p>Complete the following requirements:</p> <ul style="list-style-type: none"> 1. - Bring document to demonstrate either a or b. 2.- Bring documentation for any of the 2 – 2a, 2b, 2c or 2d (discussion)] 3.- Get a note from the principal* of your school (or another school official named by the principal) that states that during the past year your behavior, leadership, and service have been satisfactory. 5.-Bring summary document.
Sculpture	No pre-class requirements
Search and Rescue	No pre-class requirements
Space Exploration	No pre-class requirements
Sports	No pre-class requirements
Stamp Collecting	<p>The scout/student should already have a stamp collection or at least started a stamp collection before the start of MBU.</p> <p>Scouts need to bring their stamp collection or a portion of it to the second class.</p> <p>Please complete Requirement 7 prior to class.</p>
Sustainability	<ul style="list-style-type: none"> 1. Before starting work on any other requirements for this merit badge, write in your own words the meaning of sustainability. Explain how you think conservation and stewardship of our natural resources relate to sustainability. Have a family meeting, and ask family members to write down what they think sustainability means. Be sure to take notes. You will need this information again for requirement 5. 2. <ul style="list-style-type: none"> • WATER: Develop and implement a plan that attempts to reduce your family’s water usage. Examine your family’s water bills reflecting usage for three months (past or current). As a family, choose three ways to help reduce consumption. Implement those ideas for one month. Share what you learn with your counselor, and tell how your plan affected your family’s water usage. • FOOD: Develop and implement a plan that attempts to reduce your household food waste. Establish a baseline and then track and record your results for two weeks. Report your results to your family and counselor. • ENERGY: Develop and implement a plan that attempts to reduce consumption for one of your family’s household utilities. Examine your family’s bills for that utility reflecting usage for three months (past or current). As a family, choose three ways to help reduce consumption and be a

Merit Badge	Pre-Class Requirements
	<p>better steward of this resource. Implement those ideas for one month. Share what you learn with your counselor, and tell how your plan affected your family's usage.</p> <ul style="list-style-type: none"> • STUFF: Keep a log of the "stuff" your family purchases (excluding food items) for two weeks. In your log, categorize each purchase as an essential need (such as soap) or a desirable want (such as a DVD). Share what you learn with your counselor.
Theater	<p>The Theater merit badge includes several items that must be completed by the scout in order to meet all of the requirements. It is possible for a dedicated Scout to complete all of the necessary requirements in the MBU sessions, but there is a great deal of work required outside of our class time. Please expect to participate in group activities. This will be a highly interactive class.</p> <p>Scouts should bring a folder for their materials. They should also bring a notebook or paper and writing instruments for class exercises.</p> <ol style="list-style-type: none"> 1. Please have the Scouts print and complete the multiple choice quiz below and turn it in at the first session. 2. Each Scout should prepare a campfire skit and turn in a script at the first session. 3. Each Scout should prepare a review of two different plays or movies. Each review should include comments on the story, acting, and staging of the show. <p>Name: _____ Theater Terms</p> <p>NOTE: There are more definitions than answers!!</p> <p>BSA Unit: _____</p> <p>_____ arena staging _____ center stage _____ cyclorama _____ floodlight _____ flies _____ proscenium arch/portal _____ sound board _____ spotlight _____ stage brace _____ stage crew _____ stage right _____ stage left</p> <p>A. A hall or seating area within the hall where the audience views a performance. B. An electric device to combine different sounds and audio signals C. A theatre in the round, in which the audience surrounds the stage. D. A lamp projecting a narrow, intense beam of light directly onto a place or person, especially a performer on stage. E. All of the hardware used to lift, lower, and hold performance equipment on or above a stage. F. The left side of a stage as seen by an actor standing on stage facing the audience. G. A lens less lighting instrument that produces a broad non-variable spread of light. They are often used in the theater for color washes. H. The main area of focus. The middle of the primary acting area. I. The dividing wall or barrier between the audience and the stage. J. A sliding piece of wood or metal with a 'butterfly' winged nut to make it longer or shorter to fit the flat used to stabilize a flat set piece such as a flat. K. The bars on which scenery and instruments are flown. L. The team of workers who handle technical chores during a performance. M. The right side of a stage as seen by an actor standing on stage facing the audience. N. A plain cloth or plastered wall filling the rear of the stage. May be used to represent the sky. O. Extension of the stage walls up to allow scenery to be lifted up until it is out of sight of the audience.</p>

Merit Badge	Pre-Class Requirements
Traffic safety	<p>All scouts must read the Traffic Safety pamphlet completely before the March 2 sessions. The scout will answer completely the BYU requirement worksheet which before the March 2 sessions.</p> <p>The Requirement 5 worksheet should be completed and turned in on March 9.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">TRAFFIC SAFETY MERIT BADGE</p> <p>Scout Requirement: Interview the Traffic Safety Officer (or the Police Commander) at your police department. Please request and attach that officer's business card to this work sheet.</p> <p>NAME & RANK: _____ ...•...•.</p> <p>_____ --</p> <p>AGENCY: _____ --</p> <p>What are the 3 biggest traffic safety problems in your community?</p> <p>What is the agency doing to address these traffic safety concerns</p> </div>
Welding	<p>Work boot's No sneaker or rubber shoes No contact lens No nylon pants or shirt``</p>
Woodwork	<p>A. Explain to your counselor the most likely hazards you may encounter while participating in woodwork activities and what you should do to anticipate, help prevent, mitigate and respond to these hazards explain what precautions you should take to safely use your tools.</p> <p>B. Show that you know first aid for injuries that could occur while woodworking including splinters, scratches, Cuts, severe bleeding and shock. Tell what precautions must be taken to help prevent loss of eyesight or hearing and explain why and when it is necessary to use a dust mask.</p> <p>Bring in written answers and bring totin chip, badge and car</p> <p>Note: Your counselor will be contacting you via email with additional information.</p>