



2018 Merit Badge Tech

Class Catalog

Registration opens January 01, 2018
Visit www.scoutingevent.com/272-2018MBTech to register



**BOY SCOUTS
OF AMERICA®**
MICHIGAN CROSSROADS COUNCIL



Class Catalog

2018 Merit Badge Tech at ISD Career-Tech Center

Merit Badge Tech Day TC (Scheduled Classes)



MBTC100 Architecture, Drafting

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.

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

9-12 PM **Room:** 209 **Instructor:** Jim Hanes
Maximum number of participants: 10
Sessions:

1-4 PM **Room:** 209 **Instructor:** Jim Hanes
Maximum number of participants: 10
Sessions:
Prerequisites: Architecture-1a, 1b, 4, 5
Drafting - Do one of 3a to 3c, Do one of 6a and 6b.
NOTE: Done in conjunction with Drafting Merit Badge



MBTC135 Automotive Maintenance

Modern automobiles are important to many aspects of American life. Those who service automobiles must understand each principle, and how these principles interact to provide smooth, efficient performance. Owners of cars also benefit by understanding how their vehicles operate. This enables them to understand why certain periodic maintenance is required to keep their vehicles in tip-top shape.

8:30-4 PM **Room:** 206 **Instructor:** Kevin Kimble
Maximum number of participants: 10
Sessions:
Prerequisites: Read the merit badge book and be prepared to discuss the material

Prerequisites to be emailed to Counselor before MBT so they can be reviewed.

Prerequisites: 1a,1b, 2g, 3b,4a,4c,4e,5a,5c,6a,6b,7a,7b,8a,8b,8c,9a,9b,9c,9d,9e,10a,10b,12



MBTC102 Chess

Chess builds critical thinking, forward thinking, and proper sportsmanship in young people.

9-12 PM **Room:** 119 **Instructor:** John Morse
Maximum number of participants: 20
Sessions:
1-4 PM **Room:** 119 **Instructor:** John Morse
Maximum number of participants: 20
Sessions:
Prerequisites: 4b, 4c, 4d, 4e, and either 6a,6b,or 6c



MBTC103 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.

9-12 PM **Room:** 109 **Instructor:** Tim Webb
Minimum Rank: First Class
Maximum number of participants: 15
Sessions:
1-4 PM **Room:** 109 **Instructor:** Tim Webb
Minimum Rank: First Class
Maximum number of participants: 15
Sessions:
Prerequisites: Complete all requirements in workbook. Bring to review in class.

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MBTC128 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.

9-12 PM

Room: 120 **Instructor:** Bob Cooney

Minimum Rank: First Class

Maximum number of participants: 15

<https://goo.gl/fiyPv8>

Sessions:

1-4 PM

Room: 120 **Instructor:** Bob Cooney

Minimum Rank: First Class

Maximum number of participants: 15

<https://goo.gl/fiyPv8>

Sessions:

Prerequisites: 2a, 2d, 3, 6

Follow link for attachment: <https://goo.gl/fiyPv8>

NOTE: Please see attachment and download letter from the Counselor.



MBTC105 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.

9-12 PM

Room: 204 **Instructor:** Dan Ingram

Minimum Rank: First Class

Maximum number of participants: 15

Sessions:

1-4 PM

Room: 204 **Instructor:** Dan Ingram

Minimum Rank: First Class

Maximum number of participants: 15

Sessions:

Prerequisites: 1, 2, 3a, 3b, 4a, do two from 4c 1 to 7, 5a, 5b, 5c, 6a, 6b, 6c, 7a through 7e



MBTC108 Communications

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."

9-12 PM

Room: 111 **Instructor:** Thom Hooper

Maximum number of participants: 10

Sessions:

1-4 PM

Room: 111 **Instructor:** Thom Hooper

Maximum number of participants: 10

Sessions:

Prerequisites: 4, 5, 6, do one 7a to 7c, 8 and 9



MBTC109 Cooking

The Cooking merit badge introduces principles of cooking that can be used both at home or in the outdoors. Scouts who earn this badge will learn about food safety, nutritional guidelines, meal planning, and methods of food preparation, and will review the variety of culinary (or cooking) careers available.

8:30-4 PM

Room: Cafe **Instructor:** Daryl Collins and Dewayne Litwiller

Maximum number of participants: 15

Sessions:

Prerequisites: 4, 5, 6 (all parts)



MBTC132 Crime Prevention, Fingerprinting

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.

In earning the Fingerprinting merit badge, Scouts will learn about and use an important technique that is used by

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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.

9-12 PM **Room:** 117 **Instructor:** Tom Lennox
Maximum number of participants: 15
Sessions:

1-4 PM **Room:** 117 **Instructor:** Tom Lennox
Maximum number of participants: 15
Sessions:
Prerequisites: Fingerprinting: None
Crime Prevention: 2,4a,4b,5, do one of 6a to 6c, 7a, 7b, and 9c
NOTE: Done in conjunction with Crime Prevention



MBTC110 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.

9-12 PM **Room:** 112 **Instructor:** Chad Rickman
Maximum number of participants: 10
Sessions:

1-4 PM **Room:** 112 **Instructor:** Chad Rickman
Maximum number of participants: 10
Sessions:
Prerequisites: 1, do three of 6a to 6h, 7a,7b and 7c



MBTC130 Disabilities Awareness, Family Life

Look around at the Scouts in your unit, the members of your sports teams, and the kids in your class - you will see that each person has their own personalities, distinct interests and ideas, different physical features, and different strengths and needs.

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.

9-12 PM **Room:** 200 **Instructor:** Kim Rindslibacher
Maximum number of participants: 18
Sessions:

1-4 PM **Room:** 200 **Instructor:** Kim Rindslibacher
Maximum number of participants: 18
Sessions:
Prerequisites: Family Life -1,3,4,5a,5b,5c
Disability Awareness - 2, do two of 4a to 4d and one of 5a to 5c.

Disability Awareness is done in conjunction with Family Life.
NOTE: Done in conjunction with Disabilities Awareness Merit Badge



MBTC111 Electricity

Electricity is a powerful and fascinating force of nature. As early as 600 b.c., observers of the physical world suspected that electricity existed but did not have a name for it. In fact, real progress in unraveling the mystery of electricity has come only within the last 250 years.

9-12 PM **Room:** 122 **Instructor:** Jeff Morse
Maximum number of participants: 15
Sessions:

1-4 PM **Room:** 122 **Instructor:** Jeff Morse
Maximum number of participants: 15
Sessions:
Prerequisites: 2,8,9a and 9b.

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MBTC112 Engineering

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

9-12 PM

Room: 105

Maximum number of participants: 10

Sessions:

1-4 PM

Room: 105

Maximum number of participants: 10

Sessions:

Prerequisites: 1,2,5a,5b and 9.



MBTC115 Fire Safety

The ability to use fire safely is essential to human survival. By earning this merit badge, Scouts will learn to use fire safely and responsibly, how to prevent home fires, and how to handle fire safely, as well as burn prevention, and camping safety.

9-12 PM

Room: Meet In Lobby **Instructor:** Curtis Walters

Maximum number of participants: 12

Sessions:

1-4 PM

Room: Meet In Lobby **Instructor:** Curtis Walters

Maximum number of participants: 12

Sessions:

Prerequisites: 6a to 6h and 11.



MBTC116 First Aid

First aid - caring for injured or ill persons until they can receive professional medical care - is an important skill for every Scout. With some knowledge of first aid, a Scout can provide immediate care and help to someone who is hurt or who becomes ill. First aid can help prevent infection and serious loss of blood. It could even save a limb or a life.

8:30-4 PM

Room: 102 **Instructor:** Marlene Griffin

Minimum Rank: First Class

Maximum number of participants: 10

Sessions:

Prerequisites: 1,2d and 7.



MBTC117 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.

9-12 PM

Room: 214 **Instructor:** Lynn Bakker

Maximum number of participants: 16

Sessions:

1-4 PM

Room: 214 **Instructor:** Lynn Bakker

Maximum number of participants: 16

Sessions:

Prerequisites: Do one of 5a to 5d and one of 7a to 7d.



MBTC118 Geocaching

The word geocache is a combination of "geo," which means "earth," and "cache," which means "a hiding place." Geocaching describes a hiding place on planet Earth - a hiding place you can find using a GPS unit. A GPS (Global Positioning System) unit is an electronic tool that shows you where to go based on information it gets from satellites in space.

9-12 PM

Room: 103 **Instructor:** Mark Ewing

Maximum number of participants: 15

Sessions:

Prerequisites: 7 , Do one of 8a to 8d and 9.

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MBTC119 Graphic Arts

The field of graphic arts includes many kinds of work in the printing and publishing industries. Graphic arts professionals are involved in the creation of all kinds of printed communication, from business cards to books to billboards. The scope of printing communications is huge.

9-12 PM **Room:** 114 **Instructor:** Rebecca Kinnee

Maximum number of participants: 10

Sessions:

1-4 PM **Room:** 114 **Instructor:** Rebecca Kinnee

Maximum number of participants: 10

Sessions:

Prerequisites: Do one of 6a to 6d



MBTC136 Moviemaking

Moviemaking includes the fundamentals of producing motion pictures, including the use of effective light, accurate focus, careful composition (or arrangement), and appropriate camera movement to tell stories. In earning the badge, Scouts will also learn to develop a story and describe other pre- and post-production processes necessary for making a quality motion picture.

8:30-4 PM **Instructor:** Tom Mills

Maximum number of participants: 10

Sessions:



MBTC120 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.

9-12 PM **Room:** 106 **Instructor:** Sue Ewing

Minimum Rank: First Class

Maximum number of participants: 15

Sessions:

1-4 PM **Room:** 106 **Instructor:** Sue Ewing

Minimum Rank: First Class

Maximum number of participants: 15

Sessions:

Prerequisites: 1a,1b,1c(1), 1c(2), 2a , 2b,8a,8b,8c,8d,9a,9b,9c,9d,9e,10a and 10b.



MBTC121 Plumbing

Plumbing, including pipe fitting, is an important and well-paid occupation. The industry is quite broad. It covers installations and repairs in homes, commercial properties, and factories. Plumbing pipelines are used for water supply, waste drainage, natural-gas heating, and many other purposes.

9-12 PM **Room:** Shop 120 **Instructor:** Jason Rojewski

Maximum number of participants: 10

Sessions:

Prerequisites: 8a and 8b.



MBTC133 Railroading

By earning this badge, Scouts can learn about the history of railroading, its place in modern society, careers in railroading, and hobbies related to railroading.

9-12 PM **Room:** 211 **Instructor:** Jon Youngson

Maximum number of participants: 15

Sessions:

1-4 PM **Room:** 211 **Instructor:** Jon Youngson

Maximum number of participants: 17

Sessions:

Prerequisites: 2A, Do one of 3a to 3e, Do either 8a or 8b

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MBTC122 Scouting Heritage

Introduces boys 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.

1-4 PM

Room: 121 **Instructor:** Jason Rojewski

Maximum number of participants: 15

Sessions:

Prerequisites: Do one of 4a or 4b.



MBTC123 Search and Rescue

The process and safety methods of working around specialized teams such as aircraft, canine, and aquatic rescue teams. Identifying differences between search and rescue environments, such as coastal, wilderness, rural, and urban landscapes. Determining when Universal Transverse Mercator (UTM) and latitude and longitude (Lat/Lon) should be used.

9-12 PM

Instructor: U. S. Coast Guard

Minimum Age: 13

Maximum Age: 17

Maximum number of participants: 15

Sessions:

1-4 PM

Minimum Age: 13

Maximum Age: 17

Maximum number of participants: 15

Sessions:

Prerequisites: 3,5 to include the ICS training, 6A, 6B ,10

NOTE: This merit badge is held at a location other than the Career Tech Center. Scouts are responsible for transportation to and from these locations as we will not be able to transport them. Per U.S Coast Guard limits a Scout must be 13 years of age to attend this badge.



MBTC124 Signs, Signals, and Codes

American Sign Language (ASL) is the third most used language in the United States. The Signs, Signals, and Codes merit badge will cover Morse code, ASL, Braille, signaling, trail markings, and other nonverbal communications. Did you know that some of these have even saved people's lives?

1-4 PM

Room: 103

Maximum number of participants: 15

Sessions:



MBTC125 Truck Transportation

Trucking is a large and important industry. No matter where you live, a day is unlikely to go by when you will not see a truck. We use these vehicles to deliver almost every material item we buy. Without trucks, our economy would not work efficiently.

9-12 PM

Room: 204 **Instructor:** Pete St. John

Maximum number of participants: 12

Sessions:

1-4 PM

Room: 204 **Instructor:** Pete St. John

Maximum number of participants: 12

Sessions:

Prerequisites: 1,4a,4b,4c,4d and 4e.



MBTC126 Welding

The new Welding badge and pamphlet was released by BSA, and Scouts could begin earning the badge on February 24, 2012.

9-12 PM

Room: 211 **Instructor:** Rick Mathis

Minimum Age: 14

Maximum number of participants: 10

<https://goo.gl/4MdC3b>

Sessions:

Prerequisites: Complete handout from welding teacher. Bring clothes indicated. Must be at least 14 to attend this class. Please see all Welding attachments at this link.

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MBTC127 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.

9-12 PM

Room: Ag Sci Room 118 **Instructor:** Tim Kellogg

Maximum number of participants: 11

Sessions:

1-4 PM

Room: Ag Sci Room 118 **Instructor:** Tim Kellogg

Maximum number of participants: 11

Sessions:

Prerequisites: 2a, 6, 7