



BOY SCOUTS  
OF AMERICA®

**STEM University 2022 - SIUC Scouts BSA College**  
**Class Catalog**

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**Registration opens January 12, 2022**  
**Visit [www.scoutingevent.com/312-StemUSIUC22SBSA](http://www.scoutingevent.com/312-StemUSIUC22SBSA) to register**



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OF AMERICA®

GREATER SAINT LOUIS AREA COUNCIL



## Class Catalog

STEM University 2022 - SIUC Scouts BSA College: STEM U SIUC: Scouts BSA College at Southern Illinois University

### Stem Novas (Scheduled Classes)

**STNO103** 1-4 PM



**Designed to Crunch**

Math based Nova

Wesley Calvert

This module is designed to help you explore how math affects your life each day.

<http://www.scouting.org/stem/Awards/BoyScouts.aspx#designedtocrunch>

**Maximum number of participants: 15**

**Prerequisites: 1,2**

**NOTE: Prerequisites 1 and 2**

**STNO100** 9-12 PM



**Shoot!**

This module is designed to help you explore how science affects your life each day.

**Maximum number of participants: 12**

**Prerequisites: 1, 2**

Lee Elliot

## Class Catalog

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### Stem U SIUC (Scheduled Classes)

**SIUC134** 9-4 PM



#### Archeology

Archaeologists are detectives who study how people lived in the past. They figure out what happened, when, how, and why. Using the clues that people left behind, they try to understand how and why human culture has changed through time.

**Maximum number of participants:** 15

**Prerequisites:** None

**NOTE:** Participants should wear shoes and clothing appropriate for working outdoors.

Ryan Campbell

**SIUC101** 9-4 PM



#### 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.

**Maximum number of participants:** 15

**Prerequisites:** Written sections should be completed

\*\*Merit Badge will be held at the SIU Transportation Education Center\*\*

**NOTE: Prereqs : All written sections should be completed**

Andrew Tillman

**SIUC102** 9-4 PM



#### Aviation

For most of history, people have dreamed of flying, imagining how it would feel to soar through the sky like an eagle or hover in midair like a hummingbird, to float on unseen currents, free of Earth's constant tug, able to travel great distances and to rise above any obstacle. Today, through aviation, we can not only join the birds but also fly farther, faster, and higher than they ever could.

**Maximum number of participants:** 15

**Prerequisites:** Contact Curtis Baird at [curtis@midwest.net](mailto:curtis@midwest.net)

\*\*Merit Badge will be held at the SIU Transportation Education Center\*\*

Michael Burgener

**SIUC103** 9-4 PM



#### Chemistry

Chemistry explores how substances react with each other, how they change, how certain forces connect molecules, and how molecules are made are all parts of chemistry. Stretch your imagination to envision molecules that cannot be seen - but can be proven to exist - and you become a chemist.

**Maximum number of participants:** 12

**Prerequisites:** #4a

Mary Kinsel

**SIUC116** 1-4 PM



#### Chess

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

**Maximum number of participants:** 18

**Prerequisites:** none

Robert Tolnai

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**SIUC135** 9-12 PM

Aur Bech



### Energy

Saving, producing, and using energy wisely will be critical to America's future. If we are to leave future generations with a world in which they can live as well or better than we have, SCoats and other potential leaders of tomorrow must begin the hard work of understanding energy and the vital role it will play in the future.

**Maximum number of participants: 25**

**Prerequisites:** Contact Aur Bech using email below

**SIUC130** 9-12 PM

Steve Buhman



### Genealogy

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

**Maximum number of participants: 10**

**Prerequisites:** #3; #6; #7

**SIUC142** 1-4 PM

Ken Anderson



### Geology

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

**Maximum number of participants: 15**

**Prerequisites:** 1 and 2

**NOTE: Prerequisites 1 and 2 --- see attached pdf**

**SIUC123** 1-4 PM

Stephanie Dukat



### Metalwork

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

**Additional Fee: \$25.00**

**Maximum number of participants: 6**

**Prerequisites:** None

\*\*Merit Badge will be held in the SIU Craft Center. There will be a \$25 additional fee for this MB. Option 2 "Silversmith" will be completed in this workshop.

**SIUC137** 9-4 PM

Ed Heist



### Oceanography

The oceans cover more than 70 percent of our planet and are the dominant feature of Earth. Wherever you live, the oceans influence the weather, the soil, the air, and the geography of your community. To study the oceans is to study Earth itself.

**Maximum number of participants: 15**

**Prerequisites:** 8

**NOTE: Scouts should make arrangements with their troop leader to complete Requirement 8**

**Do ONE of the following:**

**A. Write a 500-word report on a book about oceanography approved by your counselor.**

**B. Visit one of the following: (1) an oceanographic research ship or (2) an oceanographic institute, marine laboratory, or marine aquarium. Write a 500-word report about your visit.**

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**C. Explain to your troop in a five minute prepared speech "Why Oceanography Is Important" or describe "Career Opportunities in Oceanography." (Before making your speech, show your speech outline to your counselor for approval.)**

**SIUC113** 9-12 PM

Stephanie Dukat



### **Pottery**

The Pottery merit badge provides an introduction to pottery making, enabling Scouts to gain skill and understanding from actually creating pottery. Completing the requirements will include hands-on production of a work of art, from start to finish.

**Additional Fee:** \$15.00

**Maximum number of participants:** 6

**Prerequisites:** See pre-req sheet

**NOTE: MB will be held in the SIU Craft Center. There will be a \$15 additional fee for this MB**