

A student wearing a grey hoodie with 'McCALLIE' printed on it is working in a laboratory. He is pouring a liquid from a glass beaker into a test tube held in a rack. The background shows other lab equipment and a blurred figure of another person. The entire image has a blue color overlay.

College **2020 TORNADO TERM**

Course Catalog

McCALLIE

2020

TORNADO TERM

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Statement of Philosophy

Learning happens in a variety of ways at McCallie. Whether in the classroom, in the dorm, on the field of competition, or on the performance stage, a McCallie education has always come about in various ways and means.

The methods may have changed and the technologies might have improved over the years, but learning has always remained as the heart and soul of the school. Education is more than about what is found in the textbook; it is a combination of exploration, contemplation, reflection, and experimentation.

That is the inspiration for **Tornado Term** - nine days of non-traditional, hands-on, experiential learning. Beginning in 2017, "T-Term" has seen McCallie men hiking to waterfalls, serving the less fortunate, learning to cook, firing off homemade rockets, driving electric cars, camping in the wilderness, and more since its inception.

For Tornado Term 2020, students will choose from over 30 different course offerings covering a wide variety of topics. Most courses include outside speakers, project-based learning and off-campus travel. For the first time, the senior class will serve internships across the world or take part in independent studies over T-Term.



2020

TORNADO TERM

1) DISCOVERING YOUR INNER WARRIOR THROUGH YOGA & MEDITATION

Cleve Latham and Karah Nazor

Prerequisites: None, though course will be physically challenging

A warrior is not someone who just goes to war and kills people. A warrior is one who exhibits integrity in his actions and control over his life. A warrior's training is designed to enable him to overcome fear in the face of danger. By channeling strength and self-mastery, a warrior can turn inward and face the things his psyche is afraid to deal with. Yoga prepares the body for meditation using physical strength, and then meditation promotes mental depth. This course will teach how to provoke and reflect upon connections between the mind and the body. Both the mind and the body will get a workout each day. The group will visit yoga studios downtown for the experience of "hot yoga" and hiking trails in the mountains for intense natural meditation. Guest teachers will introduce us to arm balances and even acupuncture.

2) FISHING ON THE FLY *NEW OFFERING*

Kathaleen Hughes and Frank "Paco" Watkins

Come learn and practice all the fly fishing basics: casting, landing, etymology, Ichthyology, reading water, fly selection and even some fly tying. All of this in some really beautiful locations in Tennessee and North Carolina.

3) ONE DAY BUILD *NEW OFFERING*

Joshua Coleman and James Harr

Using the "one day build" concept popularized by Adam Savage of *Mythbusters* fame, we will brainstorm engineering "problems" and come up with creative solutions to modifying various Nerf products.

Additionally, we will examine various commercial models of Nerf Blasters and their use in team combat strategies.



4) MASTERING BEEKEEPING *NEW OFFERING*

Correna Andrews and Nancy Olenchek

This T-Term will explore the art of beekeeping. Combining aspects of biology, entomology, melittology, and economics, novice apiarists will become experienced honey farmers as we explore the magic world of bees.

Students will learn from certified master beekeepers and certificates will be awarded upon completion.

5) MASTER CHEF

Chris Cushenbery and Joel Coffman

Want to learn how to sear a steak and cook it to a perfect medium rare, make delicious wings for game day, or whip up an irresistible dessert that will delight a party? Every chef starts his cooking journey somewhere.

The goal of this T-Term experience is to help you master some basic techniques and a handful of absolutely perfect dishes that will open the door for you to begin your cooking journey. We'll help you develop a flavor palate to know what things go together and learn about meal prep from planning to execution. Then we'll work with local chefs to help you develop those perfect dishes. Don't be clueless about cooking. Come start your journey with us.

6) THE MODERN MAN OF THE HOUSE: BUSTING THE MYTH OF HOMER SIMPSON

Susan Howick and Callie Burns

Prerequisite: Juniors only

One day you'll be single and living on your own, and then one day you'll be in a relationship, and then one day to your amazement you'll be a father. You'll need competence and confidence becoming the perfect modern man of the house.

Learning and mastering the roles of adult, husband, and father will take skills and practice. And we've got activities planned during this T-term to make it all happen for you! Home Economics (sewing, cleaning, laundry, nutrition) Cooking the perfect Saturday morning breakfasts and perfect date night dinners. Putting together perfect Christmas gifts. Answering the question, "What's with the girl?" Discovering parenting styles. Understanding growing children. Raising the smartest children. Planning the perfect Saturday with a visit to the great outdoors. Game nights! Movie nights! Marriage/Relationship Advice! Money management!

We'll have guest speakers, movies, vacuum cleaners! tool boxes! live preschoolers! And at the end all will shout, "What a man, what a mighty fine man!"

7) CYCLING FOR (AND WITH) DUMMIES

Hannah Green and Ken Henry

Prerequisites: We will be riding about 1/2 the time, so be prepared to exercise

From simple bicycle maintenance to the manufacturing process, from mountain biking to tour bikes, from the Silver Comet to metro commuting, we'll learn just about everything there is to know about cycling. And between trips to bike shops and spin classes, we'll hop on bikes and ride. If you like cycling or just have an interest in maybe getting started, this T-Term is for you!

8) THE ART, CRAFT, AND SCIENCE OF MAKING A GUITAR

Michael Lowry and Chip Evans

How does one make a guitar? In this course students will explore the process in making a guitar, culminating in the design of a functional sounding board. Students will become proficient in woodworking, using both traditional methods and high tech tools to assist in the design process. Other areas of study include understanding the physics of sound, testing the properties of wood, appreciating the art, history, and musicality of the instrument and investigating the biology of woody plants. We will take field trips to a luthier's workshop as well as visit the Gibson Guitar factory. Through a combination of guided inquiry, apprenticeship with a master craftsman and independent research, students will gain a deeper understanding of the ancient craft of instrument making. Off campus field trips may require us to return to campus later in the day.

9) LITTLE LEAGUE, BIG HELP *New Offering*

Ryan Wadley

The City of Chattanooga and McCallie will partner during T-Term to help make the ballfields around town ready for spring sports. If you like being outside, enjoy working with your hands, have a desire to serve, and want to help make our city a little bit better for its families and ball players, join us as we travel to various ballfields around the city for service projects. This is a great opportunity learn how to use a variety of tools and handy-man skills. We will also play some sports just to be sure the fields are ready for the up-coming seasons.



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10) BEST TOWN EVER

Jacob Altemus and John Green

Prerequisites: Comfortable being outside in a variety of conditions, decently physically fit.

Best Town Ever is a holistic look at what makes Chattanooga a great place to recreate outside. We will not only look at the places that people play, but meet with the land managers that allow us access and the community advocates who make that access possible. We will take a hands on approach to seeing what makes Chattanooga one of the "Best Towns Ever."

11) THE SCIENCE IN SCIENCE FICTION

Neal Dexter and Holly Deeds

Prerequisites: Must have a love of reading

This class will examine the science in both science fiction literature and films. The scientific basis for the stories, as well as what is scientifically inaccurate, will be examined. Students will be required to read the literature and be prepared to discuss it. Field trips to museums and other scientifically relevant sites will be part of the experience.

12) GOLF FOR BEGINNERS

Rob Riddle and Jim Suddath

Prerequisites: Must be a novice golfer

Fore! In this course of study, we will learn the fundamentals of the game of golf through lectures, demonstration, drills and game play. The student will also gain knowledge of USGA rules, golf etiquette and other areas as related to the game.

By the end of the two week session, the student will have been given the opportunity to learn basic terms, rules, history, and etiquette related to the game of golf, learn about the equipment and attire used in golf understand and perform the basic mechanics involved in the swing, develop the cooperative skills necessary for preparing and playing a round of golf on a course and gain an appreciation for the game and how adults and their families can enjoy golf and the lifetime benefits it provides.



13) OUTWARD BOUND IN FLORIDA

Duke Richey and Ricky Thomas

Prerequisites: Sophomores Only; Students agree to a \$250 fee for overnight travel costs

The central coast of Florida is home to some of the country's most historic and biologically diverse waterways and ecosystems. The area offers paddling on small, winding canoe trails as well as larger rivers and lakes, with camping in a variety of environments from hardwood hammock forests to barrier islands. On rivers such as the St. Thomas and the Suwannee, or in the Indian River Lagoon, paddlers will see amazing birds and other wildlife, including dolphins & manatee.

In the first few days of this course, we will prepare for the journey to Florida and learn more about the history and philosophy of Outward Bound. Once there, you will take part in a Rivers of Florida canoe course with the North Carolina Outward Bound School. During this journey, you will complete an extended expedition, which will include learning the art of paddling a canoe in a variety of water conditions as well as orienteering, expedition planning and Leave No Trace wilderness living.

14) SOUTHERN ROCK: MUSIC OF MEMPHIS, MUSCLE SHOALS, NASHVILLE, AND MORE

Chip Arnold and Keith Chapin

Prerequisites: Students agree to a \$100 fee for overnight travel costs

Do you love blues-driven Southern rock n' roll-- everything from Muddy Waters and Elvis to Lynyrd Skynyrd, the Allman Brothers, and the Alabama Shakes? Do you want to explore why so much great music has emerged from the South? Do you want to learn, or improve your own ability to play some of the Southern Rock standards on guitar? If you answered yes to these questions, this course is for you.

We will explore the roots and sounds of Southern Rock, and will learn about the dynamic music recording industry in the region by visiting Muscle Shoals, Alabama, then Beale Street, Sun Studios, and Graceland in Memphis, as well as the Country Music Hall of Fame in Nashville. Along the journey, we will play guitar, with the goal that everyone in the class participates in a group jam of at least two classics.

15) CIVIL WAR BATTLES FOR CHATTANOOGA **Luther Killian and Ralph Potter**

Explore the history that happened at and around the McCallie campus from September through November of 1863. In the months after the pivotal battles of Gettysburg and Vicksburg, Union strategy focused on Chattanooga. The Confederate government responded with massive reinforcements in a bid to win it all here. What happened next is a fascinating story of human nature, incredibly bad and good leadership and most of all weird and unexpected events no one could have foreseen. We will spend most of our time exploring the battlefields in and around Chattanooga and Chickamauga, including our own campus.

16) TAKING FLIGHT *NEW OFFERING* **Caleb Bagby, Wayne Fullam, & Ryne Linsley**

Come build a flight simulator. You will be using the same flight stick and software the United States Air Force uses for training our fighter pilots.

If you like America, planes or blowing things up, join us in the Innovation Lab during T-term.

17) DC COMICS AND THE DCU *NEW OFFERING*

Tom Herring and Leo Prociase

We will study the history of DC Comics by reading comics, watching documentaries, visiting comic stores, doing nightly research assignments, having daily discussions, and performing feats of strength, speed, and skill. We will discuss how United States history influenced the development of almost every character in the DCU.

We will also watch select movies to see where the DCU began and where it is headed by watching the newest DC movies to see if our fan theories align with what will happen in the future of this extremely new cinematic universe. By the end of T-Term, you will be responsible for an in-depth analysis of one character that you will present to the class (creativity counts).

18) LEADERSHIP RETREAT

Debbie Lifsey, Josh Deitrick, Sam Currin, & Sean McCourt

Prerequisites: Ability to stay overnight at a retreat site off-campus

At the heart of the course is the realization of the love present in your lives, and how that love has shaped you into the person you have become.

This course offers a chance to reflect on your purpose, the influencers in your life, your relationship with God, and your world-view. It also offers a chance to unplug, reflect, pray, meditate, and be more mindful about our lives.



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19) CRIME & PUNISHMENT

David Cook and Chet LeSourd

Prerequisite: Must be 16 years old or older

What happens inside our prisons? What it's like to live on death row? Why do some people consider the prison system the "hardest gang to leave" in Chattanooga? Why has one police officer said our city is like "Gotham?"

During this T-Term, we'll explore crime, prisons and punishment. The US has the highest rate of incarcerated citizens than any nation on earth. Why? Why are so many Americans in jail? What purpose does prison serve?

Students are required to be 16 years or older. We will tour multiple prisons and jails, including the possibility of visiting death row.

20) THE ART OF WAR THROUGH MILITARY BOARD GAMES

Paul Cudd and Brent Alverson

We will use military board games as a way to look at the history of warfare and to have the chance to see "what if" certain things had been different. The games will put students in control of everything from air units, naval units, squads, armies, etc..

21) HOCKEY

Cary Hubbard and Paul Merrion

"I once went to a fight and a hockey game broke out!"

This is a hockey joke you may have heard before. Have you ever wondered about the 'coolest' game on earth? This session will focus on teaching you about the game and letting you get off the bench and on the ice. There will be on-ice skating sessions, stick and ball full hockey sessions, and may culminate in a full, on-ice, stick and puck, don't lose your 'chiclets' hockey game where you are the stars. Ever see a game live, not just on TV? Unless you've seen a game live, you have not witnessed the speed, power, finesse, and bone-jarring action that is like no other sport you have ever witnessed. So, lace 'em up and strap on a bucket, it's time to hit the ice.

22) ESCAPE EXPERIENCE

Rob Lyons and Jason Jones

Have you ever experienced an escape room? This group will experience escape rooms in Chattanooga, explore the construction and design of these rooms, will meet with designers of the rooms to discuss the construction, will reverse-engineer and map-out the puzzles involved, and will design a room based on what we have learned. We will then build our own escape room based on our explorations for the enjoyment of the McCallie community.

23) COMMUNITY ENGAGEMENT: EXPERIENCING THE NEEDS OF OUR COMMUNITY

Will Honeycutt, Adam Tolar, & Erin Tocknell

The goal of this course is for students to deepen their concepts of compassion while building connections and exploring our city from a new perspective. In 2015, Outside Magazine named Chattanooga as one the best towns to live in, but as Aesop said, "Every truth has two sides." Over the eight day term, students will journey to the less glamorous sides of our city. We will learn about the needs of the Chattanooga community through actively engaging with its marginalized members.

Our service will focus on refugees, widows, the homeless, the disabled, youths, and the elderly. Projects may include painting and yard work, as well as tutoring or preparing/sharing a meal. We will spend time reflecting on the real issues that many Chattanoogaans face and will learn from leaders and social workers who are currently working to make a difference.

24) CONTEMPORARY ART: MY FIVE-YEAR OLD KID COULD DO THAT (MAYBE)

Sumner McCallie and Carson Murphy

So what is the deal with Contemporary Art? What is it trying to say or mean? What about it would cause people to spend millions? Are they being hoodwinked? This course will attempt to develop an understanding-- even an appreciation-- of contemporary art by seeing it, by studying it, by speaking with current artists who produce it, and by creating some of our own. We'll head to artists' studios and nearby museums. We'll walk through outside sculpture parks and explore videos like the one of a six-year old in Italy taking the world by storm with her abstract paintings. And then we'll don aprons, cover a room in plastic, and get to work on our own masterpieces.

25) THE VIETNAM CONFLICT

Chris Richardson, Steve Reno, & Mike Newman

Using the PBS Ken Burns/Lynn Novick Documentary "The Vietnam War" as the centerpiece, we will look at this interesting, pivotal, and influential time in U.S. history. The PBS documentary will be supplemented by writings from Tim O'Brien, Michael Herr, and Myra MacPherson, among others.

26) TIME TRAVEL *NEW OFFERING*

Jim Carlone and Bryan Sansbury

It is omnipotent, as all things yield to it.
It is omnipresent, for it is everywhere.
It is omniscient, since it holds all things & all possibilities, and therefore knows all.
It moves all Life in one direction, and yet can only be understood in reverse.
But what could happen if we, mere mortals, were presented with the opportunity to meddle with time? Could we alter the altar at which all of the Universe has bent its knee?

This course will spend our Time as we survey, discuss, & interpret past depictions of what the possibilities of overturning the natural order of the universe could mean for the future. We are going to look at the science behind time travel, analyze the linear-time and multiverse theories, dissect depictions of it in film & novel, work out any kinks in our understanding of what it could mean, and then write & act out our own miniature concept of time and what the potential ability to travel through it might mean.



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27) T-CRAGGING

Jesse Teague, Bailey Adams, & Luis Rodriguez

Prerequisites: There may be a small fee for this course offering. It requires Saturday & Sunday participation.

This year T-Trek has morphed into T-Cragging. Join us for an expedition based around climbing while holding close to our foundations of trip-planning, growing leadership skills, and exploring and living outside. Students will help plan meals, decide climbing areas, rest-day activities and will have the chance to co-lead for a day as one of two "Leaders of the Day." It will be a challenging experience, cultivating growth individually and within a group. It will also be a fun way to explore nature through climbing. There is a small fee associated with this trip, and it will entail you missing afternoon activities and traveling through the weekend.

28) SOCCER FOR BEGINNERS

Randy Odle and Ross Shumate

Prerequisites: Must be a soccer novice

Learn the rules, tactics, and traditions of the World's most popular game. Whether on Brazilian streets, European pitches, or inside Chattanooga's own Finley Stadium, soccer gives identity and camaraderie like no other sport. In this Tornado Term, you will learn how to both play and officiate soccer.

We will explore how soccer sometimes drives world politics, how it interacts with national and neighborhood cultures, and how the business of international soccer works.

29) CLASSIC MOVIES

Dave Porfiri, Bryon McCague, & Jennifer Potter

Prerequisites: Juniors only due to mature content

Films are more than entertainment. At its best, the cinema can engage the human spirit in many different ways. This course will extend the cinematic experience by connecting film subject matter with real life experiential activities that will inform, educate and inspire.

Among other activities, students will visit with a homicide detective after screening a murder mystery film, they will tour an EPA Superfund site after screening a film about environmental pollution and they will converse with a Vietnam veteran after screening a film about that conflict.

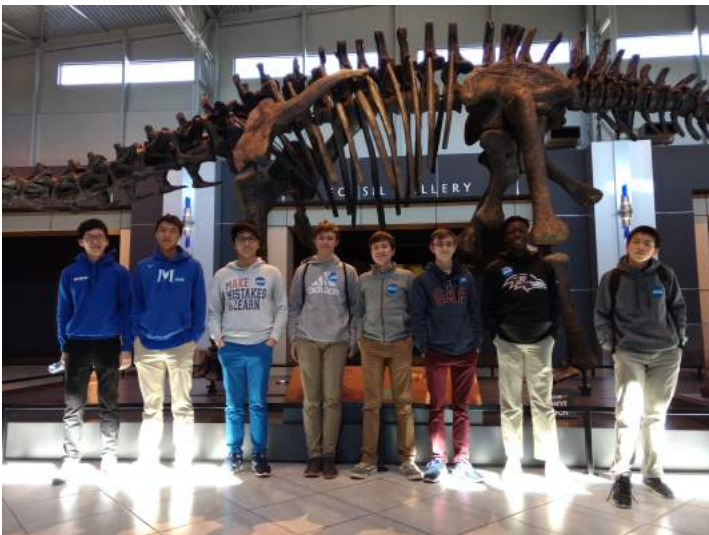
30) ADVENTURE SPORTS *NEW OFFERING*

Ashley Cole and Preston Godbold

Prerequisites: due to the physically strenuous nature of many of the activities we will be engaging in you need to have four fully functioning limbs and be in good health.

Experience the outdoors in several exciting and challenging ways! You will learn how to rock climb and belay a climber safely. We will go horseback riding, and students will learn to ride and take proper care of their mounts. Chattanooga is home to some of the largest cave systems in the United States and we will spend a day spelunking. There is a potential for a day hike and we will spend a day going through an introductory hang gliding experience. Students will have the opportunity to learn how to hang glide and fly five times down a slope then go for a tandem flight with an instructor.

The outdoors is a precious resource to humans. As we grow and expand it is becoming more and more imperative for all members of society to understand and value this diminishing resource. As we enjoy the natural boulders and cliffs or the wilderness trails we will learn to develop an outdoor ethic. Students will learn to leave no trace and be taught to appreciate the wildness of nature.



31) MAN UP: THIRTY THINGS EVERY MAN SHOULD KNOW

Trey Tucker, Will Givens, and Dave Sewell

In an age where adolescence seems to be lasting later and later into life, we will explore the “art of manliness” in an effort to better equip our boys with the tools necessary to be successful twenty-first century men. Boys will learn that manhood is all about one’s ability to care for the others around him, and that ability stems first from his own self-care. Our focus will be on developing emotionally connected and empathetic young men who also possess practical skills to care for those in their lives.

Key lessons will include: the importance of personal finance and budgeting, sound risk taking, emotional and spiritual self care, personal hygiene and grooming, fitness and self defense, and basic auto care. We will address these areas of focus in practical lab experiences as we make wallets, practice meditation techniques, learn how to operate a standard transmission automobile, change a car’s oil and tires, and experience what it means to practice safe risk taking in high speed go karts and indoor skydiving!

There is so much demanded of young men today, and boys will leave this experience feeling more prepared to meet those demands and excel in the roles of manhood in this new millennium.



32) BOX LACROSSE FOR BEGINNERS

NEW OFFERING

Eamon Thornton and Eric Wolf

Prerequisite: 9th graders only

This course will include an introduction into the history of lacrosse, instruction in basic fundamentals of lacrosse, rules of Box Lacrosse, fundamental movements of Box lacrosse (screens, pick and roll, fast breaks, even goalie play), a trip to Atlanta to visit the Georgia Swarm (professional NLL team), and a chance to play Box lacrosse here in Chattanooga at TN Pavilion.

Participants do not need to have their own equipment and will be able to borrow from McCallie.





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