

Short-Term Course Descriptions: 2018-19

Morning Sessions A&B: 8:00 - 12:20 (4 HOUR)

Science vs. Science Fiction (4 hours - AM session A&B)

- Maximum # = 20
- Cost: \$0
- Description: An exploration of 4 science fiction films and the modern day science behind the ideas presented in the films that deal with the questions: What does it mean to be human? What is the nature of reality? What are the possibilities and perils of artificial intelligence and future tech? Are we alone in the universe? Is time travel possible? The week will culminate with a debate centered on each of the featured topics. Students will have to choose at least one topic in which they will become an "expert" for the discussions.

Morning Sessions A: 8:00-10:00 AM

Tiny House Design (2 hours - AM sessions A)

- Maximum # = 20
- Cost = \$10
- Description: Students will learn about tiny homes and develop their own plan and model

Video Design (2 hours - AM session A)

- Maximum # = 12
- Cost = \$15
- Description: Students will learn the basics of using an iPhone to shoot a full production video, including lighting, lenses, camera and subject motion. Students will then write, produce, film, and edit a very short video by the end of the week.
- It's very helpful if students have an iPhone, but not required.

War Games: Axis and Allies (2 hours - AM session A)

- Maximum # = 15
- Cost: \$0
- Description: In this grand strategy game you will take command of either the Allied or Axis Powers in an epic struggle for control of the WWII era globe. You must be a cunning strategist and a skilled tactician to advance your people to victory. Players form two teams of competing alliances and must manage the combined military, economic, and diplomatic forces of their power in conjunction with the other members of their alliance to achieve victory. A vast array of

choices confronts the players at every turn. Will you focus on air superiority or naval supremacy? If you choose airpower, will you use your bombers to support your army in its advance or use it to pummel enemy industrial targets behind the front lines? Choose wisely: The fate of the world hangs in the balance.

Guide to Personal Finance (2 hours - AM session A)

- Maximum # = 15
- Cost = \$0
- Description: Students will learn about finances, taxes, savings, checking and savings accounts, check writing, etc.
- Special Requests: Students must bring a calculator and writing instruments.

Forensics (2 hours - AM session A)

- Maximum # = 15
- Cost: 50.00
- Description: This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence and the law and courtroom procedures from the perspective of the forensic scientist.

Music Appreciation (2 hours AM - Session A)

- Maximum # = 12
- Cost = \$0
- Description: From the inside out: Students will learn details about musical instruments, explore their development and listen to examples of some of the most famous performances with a new understanding.

Shark Tank - Entrepreneurship (2 hours AM - Session A)

- Maximum # = 20
- Cost = \$0
- Description: Using the television show 'Shark Tank' as an example, small groups of students will design a product or service, create a prototype, film a commercial, submit a business plan, and pitch their product or service to a panel of judges. The panel of judges will decide which groups product/service is worthy of investment!
Students will work throughout the week utilizing real-world business and entrepreneurship skills and scenarios with Mr. David to be prepared to pitch their product/service by Friday at the end of the week.
- Special Requests: Students MUST bring their computers with them.

All Things Aviation (2 hours AM Session A)

- Maximum # = 8
- Cost = \$20
- Description: In this general aviation course, students will explore various topics related to aviation. Students will learn about the four fundamentals of flight: drag, lift, thrust, and weight through a series of hands-on activities. Students will create a model of a Wright Brothers airplane and participate in a glider competition. Finally, the week will end with a field trip to Fort Rucker to experience a ride in an Air Force helicopter simulator.

Morning Sessions B: 10:20-12:20 AM

Tiny House Design (2 hours - AM session B)

- Maximum # = 20
- Cost = \$10
- Description: Students will learn about tiny homes and develop their own plan and model

Digital Photography (2 Hours - AM session B)

- Maximum # = 12
- Cost = \$5
- Description: Students will use both camera phones and digital cameras to begin a hands-on experience in photography, looking at the basics of composition, color, etc. We will also look at some apps that help users post better photos to IG and FB, as well as traditional Macbook editing. Students will build a short photographic portfolio.

Model Rockets (2 hours - AM session B)

- Maximum # = 12
- Cost: \$55
- Description: Model rocketry is a powerful tool to incorporate science, technology, engineering, and math into a fun, engaging, and challenging activity. When designing model rockets, the students have an opportunity to match their ingenuity with the limits of Newton's Laws of Physics in order to design their own model rocket that is aerodynamically sound. Fine motor skills are honed during the construction of the rockets as they measure, cut, and glue their rocket parts to the specifications that they themselves determined. Teamwork is a skill that they acquire and they organize into a group with many specialized responsibilities for the purpose of launching their rockets. Newton's Laws are in full enforcement right before their very eyes.

Guide to Personal Finance (2 hours - AM session B)

- Maximum # = 15
- Cost = \$0
- Description: Students will learn about finances, taxes, savings, checking and savings accounts, check writing, etc.
- Special Requests: Students must bring a calculator and writing instruments.

Cooking (2 hours - AM session B)

- Maximum # = 16
- Cost = \$30
- Description: This class will explore the diversity of Latin American cuisine, with a focus on Mexican dishes. We will also be learning fundamental cooking skills while working side-by-side with other students. We will be preparing breakfast, lunch, and appetizers in class. At the end of each class, students will be able to take a dish home to heat up and serve.
- Special Requests: Students will work in groups and must bring:
 - Knife Set
 - Mixing Bowl Set (preferably stainless steel)
 - Cooking/Mixing/Baking Set (spatula, wooden spoon, etc.)
 - Cookie sheet
 - Measuring Cups and Table/Teaspoons

Shark Tank - Entrepreneurship (2 hours - AM Session B)

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- Cost = \$0
- Description: Using the television show 'Shark Tank' as an example, small groups of students will design a product or service, create a prototype, film a commercial, submit a business plan, and pitch their product or service to a panel of judges. The panel of judges will decide which groups product/service is worthy of investment!
Students will work throughout the week utilizing real-world business and entrepreneurship skills and scenarios with Mr. David to be prepared to pitch their product/service by Friday at the end of the week.
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All Things Aviation (2 hours AM Session B)

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a model of a Wright Brothers airplane and participate in a glider competition. Finally, the week will end with a field trip to Fort Rucker to experience a ride in an Air Force helicopter simulator.

PM Session (1:15-3:15)

Recreational Activities (2 hours - PM session C)

- Maximum # = 30
- Cost = \$40
- Description: Students will participate in a variety of activities and in some cases, must select between two options:
 - Monday: Ping Pong and Pickleball
 - Tuesday: Ultimate Frisbee or Mountain Biking
 - Wednesday: Trampoline Park
 - Thursday: Miniature Golf
 - Friday: Bowling & Awards
- Special Requests: Special permission slips/waivers will be required as students will meet and in some cases, be transported off campus to various sites. The Trampoline Park requires all parents to complete an online waiver form that must be printed and sent in with the child.

Chess (2 hours - AM session C)

- Maximum # = 16
- Cost: \$0
- **Intro to Chess** is designed for both beginner and intermediate level chess players. In this course, players will be introduced to common chess openings and how to respond to each. Players will learn to see the chess board differently and identify predominate patterns of movements. Both strategy and tactics will be introduced. We will finish the week with a Swiss-style tournament.

RAD Self Defense for Females (2 hours - PM session C)

- Maximum # = 20
- Cost: \$5
- Description: Rape Aggression Defense teaches physical confidence and self-defense techniques. The lectures and physical training teach girls both avoidance and prevention of physical attack, and it is taught by officers of the Dothan Police Department. Learn to protect yourself with good habits, your voice, and your strength.

- Special Requests: This class is open to girls only, and all participants will need to have a signed parent permission form. Due to the physical nature of the training, girls MUST wear athletic clothing.

Football 101 (2 hours - Session C)

- Maximum # = 20
- Cost: \$0
- This course will deal with new offensive concepts that our HA team will use in the 2019 season, as well as some defensive maneuvers in alignment, pass rush and pass coverage. There will be motivational and leadership concepts explored through classroom and video presentations. Students will gain knowledge on how to study video and use the Hudl software. Students will also get an opportunity to evaluate and work in groups to make suggestions for planning future team activities.
- Special Requests: Classroom and Walk Thru Environment - Students will not have to dress out

X MARKS THE SPOT: Geocaching & Orienteering (2 hour - Session C)

- Maximum # = 20
- Cost: \$0
- Get to know our HA Campus using basic navigation techniques. Pay attention to the five senses and what is around you. Train the mind to store mental imagery, remember the sequence of directions, draw maps & describe what you see. Bring back your Human Navigational Instincts & FIND THE MISSING TREASURE.

Augmented Reality with the Merge Cube (2 hours - Session C)

- Maximum # = 12
- Cost: \$25 (Includes a Merge Cube and a 1-year subscription to CoSpaces Edu Pro)
- Description: The Merge Cube is the first holographic object you can hold in the palm of your hand. When held in front of a mobile device's camera while using a Merge Cube app, it is transformed into digital 3D scenes and objects. You can move and rotate the cube to see things from different angles. In this course, students will learn about the Merge Cube, experience some of the hundreds of apps already created for it, and even learn the basics of creating their own Augmented Reality apps for the Cube.

FULL DAY ACTIVITIES:

Fishing

- Maximum # = 30 - Jr. students only
- Cost = \$30
- Description: Students will learn about catch and release practices to better the environment. Students will learn to properly/safely handle and clean fish. Students will apply their math skills in a home economics situation to purchase the necessary supplies to host a fish fry with all the trimmings. Students will learn to properly write a thank you note to all fishing hosts for the week.
- Special Requests: Students need to bring a reel, rod, and tackle.