



<http://summer.mfriends.org/>

Senior Scholars Course Descriptions

Rising Grades 7 - 10

Updated 2/26/19

Week 1: June 24 - 28

Mock Trial Turbo - Special Investigations (FD)

Teachers: Clark Thomson/Griffin Kidd

Like peanut butter and chocolate, Mock Trial and Forensic Science are a natural combination. Your two favorite teachers have joined forces and are bringing the best of both topics together for a completely engaging experience. There will be crime scene investigation, evidence that needs to be properly collected and processed, and then the evidence that is collected will be used in a trial. Don't miss out on this class. Limited space available! **Please note that this is a full day course**

Visual Arts Portfolio Preparation: Stand Up and Be Noticed! (Full Day) (Rising 11th-12th)

Teacher: Nicole Edmund

Take advantage of this one-week, full day class to completely immerse yourself in the process of portfolio preparation. The college application process is highly competitive and this class will guide you through what's needed to stand apart from the masses. Students will receive instructor and peer feedback on their work and complete the week with four to six polished pieces that will make that college portfolio review a breeze. Classes meet for the full day allowing students the luxury of uninterrupted studio time during which they can completely immerse themselves in their work.

Requirements: rising 11th or 12th grader in Fall 2019 with previous drawing experience

Additional materials fee: \$30

Swimming/ Athletic Training (AM)

Teacher: Swim Instructor/Kyle Hagerthey

While students are spending half of this block in the pool (75 minutes), the other half of the time is spent in MFS's athletic training room or out on the fields. Depending on the interests of athletes, there will be flexibility in the programming. A signed training waiver will be required of all students.

The Potter's Wheel and Beyond (PM)

Teacher: David Gamber

The potter's wheel is one of many tools a ceramic artist uses in their creative practice. This intensive exploration of the potter's wheel will also include time for using other tools used to create functional and sculptural clay pieces. Participants should come prepared to get a little messy and have a lot of fun. All materials will be provided.

Week 2: July 8 - 12

Model United Nations (MUN) (FD)

Teacher: Clark Thomson

Don't miss this summer's MUN case. Sign up early. Limited space available!

In 1953, the United Nations elected Dag Hammarskjöld as the second Secretary-General. He would go on to lead the United Nations to help with a number of world crises including relations between Israel and the Arab States and the Suez Crisis. The African movement for decolonization became his focus at the end of the decade and into the next. In this historical crisis committee, the UN Security Council will work with Secretary-General Dag Hammarskjöld to deal with the myriad international issues of this tumultuous period with a few surprises.

Cracking the Rubik's Cube and Speed Cubing (AM)

Teacher: Mike Romea

Have you ever wanted to solve the Rubik's Cube? Now is your chance! Did you know this little cube has 43,252,003,274,489,856,000 configurations and only one out of these is considered correct. The entire strategy for solving the cube will be revealed throughout the week, which consists of special algorithms adapted by Mr. Romea. Once students master the cube they will compete against the clock and each other in a race to solve it the fastest.

Chess with The Knight School (PM)

Teacher: Coach Luke

We welcome ***The Knight School Chess*** program to Summer Programs at MFS! This fun, high octane approach to learning chess will jumpstart your child's interest in the game if they are not already "hooked." Coach Luke invites every player, new to the game or seasoned, to join in as they use dynamic chess videos, music, and learn every cool trick, strategy, opening, and tactic in the game. Students soon learn to love and master the game of chess while learning to masterfully manage their experience in the classroom, on the sports fields, and at home.

Submerge! Scuba Certification Course

(July 8 + Week of July 15 for three confined water evening dive sessions)

Specialized Offering

Grades 7 - 12

Course Cost: \$600 with \$100 deposit

Special Teacher: Arin Smith, Owner/Master Instructor at ***The Dive Shop***

The course covers two of the three parts required for an Open Water scuba diving certification.

The industry standard requires that once you have completed these two portions, you will need to complete four open water dives sometime within 12 months of completing the program.

These dives can be scheduled with ***The Dive Shop*** or any other shop in the world with a referral (additional costs apply). This hybrid course will provide the orientation, e-learning, equipment, confined water dives in a pool, plus support throughout. Students will benefit from an education that lasts a lifetime, increased confidence, and a new social network. Medical forms and liability waivers will be required prior to the orientation. Course cost includes custom-fitted mask, fins, snorkel (\$250 value). These are yours to keep.

Swimming/Athletic Training (PM)

Teacher: Kyle Hagerthey

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Week 3: July 15 - 19

Mock Trial #3, (FD)

Teacher: Clark Thomson

Scholars will take a case from a series of assumed facts to a jury's decision. Through research and collaborative work, students will learn about the legal system, the role of the prosecution and defense in trial cases, and how to properly prepare and present oral arguments. The class will culminate in a mock trial simulation with prosecution, defense, and witnesses. The students

will develop skills which will be useful in the creation of supported arguments for high school discussion and debate. **Please note that this is a full day course**

Entrepreneurial Me! - Start a Start-up (AM)

Teacher: Josh Weinstein

Running your own small business can be the most rewarding and yet difficult thing for an adult to successfully navigate. Come learn about crowdfunding, venture capitalism and the world of social capital. Discover how to create a culture where people want to work for you and with you. Leadership will be a part of every lesson and conversation.

Swimming/ Athletic Training (AM)

Teacher: Kyle Hagerthey

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Escape Room Phase II (PM)

Teacher: Mike Romea

Over the course of the week, students will use the immersive learning platform of Breakout EDU to hone skills in code-breaking and puzzle-solving. With these skills at their disposal, Senior Scholars will work in teams over the course of the week to develop their very own Escape Room. The week will culminate with students testing out the other team's room. Come join us for some engaging puzzle solving and fun!

Week 4: July 22 - 26

LEGO Mindstorm Robotics (AM)

Teacher: Kevin Cox

Come to this class ready to build! Students will work together to build a LEGO Mindstorm robot. As soon as the robots are built, it's time to program them to complete cool challenges! Will your robot win the race?

Music Video Production (PM)

Teacher: Kevin Cox

Channel your inner artist as you and a group of friends make a music video! From performance to production to set design, this course offers insight into the many different aspect of music video creation. Bring your collaborative spirit to this class!

Conducting Scientific Research (FD)

Teacher: Mike Romea

Students will embark on the world of research by running through formal methods by which research is done: descriptive/analytical, applied/fundamental, qualitative/quantitative, conceptual/empirical. Some projects may include genetically modifying DNA, environmental sustainability, and/or physics analysis. Successful students in the class may have the following strengths and/or interests: strong technical skills, such as numeracy and mathematical modelling; good problem-solving and analytical skills; highly self-motivated. Be prepared for this high engagement class where fun will most definitely be a by-product. **Please note that this is a full day course**

Swimming/ Athletic Training (PM)

Teacher: Kyle Hagerthey

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Week 5: July 29- August 2

Hone your Drone (AM)

Teacher: Kevin Cox

Drone is flight can be an expansive learning proposition. If you fly out of range, you may lose your drone to a tree, lake or field crash. Get your experience here at MFS and start capturing video never before imagined. You'll learn the tricks and tips on flight, remote maneuvering, and more. Each student receives their own drone to take home at the end of the course to continue their adventures.

Fashion Design & Machine Sewing: The Handwork Studio (AM)

Teacher: Staff at The Handwork Studio

Whether you are an aspiring fashion designer or a creative camper looking for new skills, immerse yourself in the wonderful world of machine sewing! This program is all about choice and creative expression. Campers will be taught how to read and use a wide variety of patterns, to make their very own clothes, stuffies, bags, and much more! In addition to a catalog of over 20 patterns, campers get to choose from dozens and dozens of bolts of tempting fabrics to bring individual style and flair to every creation. There are more than enough options to keep you coming back week after week and year after year! All skill levels are welcome and all supplies and equipment are provided.

Life Skills & Money Management (PM)

Teacher: Charlie Isdell

It's a whole new world when it comes to money. Writing checks is a thing of the past. What to do with your money and how to best management it as a young adult. These issues and more will

be discussed along with ethics and best practices. We will explore online financial management programs and apps. One day will be spent on cybersecurity.

Cinematography (PM)

Teacher: Kevin Cox

More details to come.

Swimming/ Athletic Training (AM)

Teacher: Swim Instructor/Kyle Hagerthey

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Week 6: August 5 - 9

Vets In Training: "Residents" (AM)

Teacher: HousePaws Educator

By embracing the human-animal bond through interaction and education, the HousePaws Vets in Training Program provides hands-on, experience-based veterinary education to each student. The "Residents" course for our Senior Scholars will include Pet CPR, Anesthesia 101, Ophthalmology, the Skeletal System, and Cardiology. Come explore the science behind how we care for our animal friends. There will even be time for a dissection!

Virtual Reality - Applications in Science and Engineering (PM)

Teacher: TBA

As a well-established technology, VR has set a new standard for where we can go, what we can see, and how we can work with it. Join us in this new virtual world where we will begin work in the arts and sciences. Multiple sets of goggles will be shared in small groups.

Swimming/ Athletic Training (PM)

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