



Senior Scholars Course Descriptions

Week 1: June 25 - 29

Mock Trial #1 (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.

State of Oregon v. Taylor Durden

Epsilon Sigma Epsilon, a university-accredited honors society, has a pledge Olympics in August for prospective members of the honor society. This included activities each day such as wiffle ball in the backyard, quiz sessions on University and ESE history, and team-building activities. What loomed before the pledges on that Saturday afternoon was made out by other members to be the most dreaded event – Water Jeopardy. Pledge Jessica Bateson collapsed during this activity and later died. Pledge Master Taylor Durden was charged with involuntary manslaughter and the lesser included offense of hazing. Was Taylor Durden responsible? The prosecution and defense will meet in our Mock Trial court to examine the facts of this case.

*Please note that this is a full day course.

Vets in Training: "Residents" (AM)

Teacher: Rachael Samaroo

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!

3-D Printing and Design (PM)

Teacher: TBA

This course will explore the many possibilities of 3-D printing and design. Using TinkerCAD, students will collaborate to design and print their creations. Through the design and printing process, it will be important to consider not only aesthetic, but also critical mathematical and artistic design principles - such as negative space - in order to ensure that the work is structurally sound.

Swimming & Field Games (PM)

Teacher: TBA

While students are spending half of this block in the pool (75 minutes), the other half of the time is spent playing fun games out on the fields or in the gym during inclement weather. Depending on interests of children, there will be flexibility in the programming. Activities may include soccer, basketball, dodgeball, volleyball, badminton, ping pong, tennis, lacrosse, wiffle ball, flag football, and more.

Week 2: July 9 - 13

Project Engineering (FD)

Teacher: Griffin Kidd

Get ready for complete project engagement! Students will build working wind turbines, solar powered race cars, balsa wood bridges, and learn to work on a CAD program. Access to the MFS 3D printer will allow students to print their own designs. The week would not be complete without a good egg-drop competition.

Model United Nations - Historical Crisis Committee (AM)

Teacher: Clark Thomson

The Presidential Cabinet of Andrew Jackson will face opposition in congress to the Indian Removal Act and a conflict with the Supreme Court of the United States as Jackson attempts to move the Cherokee Nation from Georgia to west of the Mississippi. Can the Trail of Tears be avoided? Scholars will play a variety of roles as people on all sides of this issue gather. Cherokees John Ross and John Ridge will be in attendance, as well as many other important historical figures.

Swimming & Field Games (AM)

Teacher: TBA

While students are spending half of this block in the pool (75 minutes), the other half of the time is spent playing fun games out on the fields or in the gym during inclement weather. Depending on interests of children, there will be flexibility in the programming. Activities may include soccer, basketball, dodgeball, volleyball, badminton, ping pong, tennis, lacrosse, wiffle ball, flag football, and more.

Escape Room with Breakout EDU (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 3: July 16 - 20

Mock Trial #2 (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.

State v. Dana Kendall

Caneville is located in Willamette County, Oregon, a semi-rural area. With a population of 16,000, the city has seen an alarming increase of illegal drag racing in recent years. The City Council decided to address this deadly problem. With a unanimous vote in January, 2004, the council passed the "Caneville Control of Illegal Racing Clubs Ordinance" ("Racing Ordinance"). Dana Kendall and Vanessa Foley appeared to be drag racing when Vanessa lost control of her vehicle. The firefighters extracted Vanessa from the Stallion X2, and paramedics took Vanessa to the emergency room at Columbia Hospital where she was pronounced dead from traumatic head injuries. Was Dana responsible? Will Dana be convicted of Criminally Negligent Homicide. The prosecution and defense will meet in our Mock Trial court to examine the facts of this case.

*Please note that this is a full day course.

Doing Good for the Moorestown Lutheran Home-Designing Service (AM)

Teacher: Ashlynn Thomson

Helping others feel SO good! In this course, students will directly impact the lives of others in a meaningful, positive way. In partnership with Lutheran Crossings at Moorestown, students will visit the center (within walking distance of our campus!), forge relationships with the residents and staff, and strive to understand how we can make a difference. Back at MFS, students will then work as a collaborative team to design a service project that will directly impact the lives of the residents before bringing the results of their work back to the Lutheran Home later in the week.

Forensic Science (PM)

Teacher: Griffin Kidd

Crime Scene Investigation (CSI) and forensic science are two important fields in law enforcement. In this class, Scholars will use deductive reasoning and evidence to narrow down a list of suspects. They will learn about different types of physical evidence, how to collect evidence and how to examine physical evidence in order to solve a crime.

Swimming & Field Games (PM)

Teacher: TBA

While students are spending half of this block in the pool (75 minutes), the other half of the time is spent playing fun games out on the fields or in the gym during inclement weather. Depending on interests of children, there will be flexibility in the programming. Activities may include soccer, basketball, dodgeball, volleyball, badminton, ping pong, tennis, lacrosse, wiffle ball, flag football, and more.

Week 4: July 23 - 27

The Design of Coffee: An Engineering Approach Part 2 (FD)

Teacher: Michael Romea

Learn the principles and practice of brewing a truly excellent cup of coffee, while getting an introduction to chemical engineering. The Design of Coffee provides an introduction to chemical engineering, as illustrated by the roasting and brewing of coffee. Hands-on coffee experiments demonstrate key engineering principles, including material balances, chemical kinetics, mass transfer, fluid mechanics, conservation of energy, and colloidal phenomena. The experiments lead to an engineering design competition where contestants strive to make the **best tasting coffee** using the **least amount of energy** – a classic engineering optimization problem, but one that is both fun and tasty!

*This is a full-day course

The Influence of Music - Yesterday and Today (AM)

Teacher: Matt Wartenberg

Music and culture are invariably linked. Each one has informed the other throughout the growth of American society. This course will explore the way that music is intrinsically woven in as part of the fabric of our society, focusing on the last half century. Of course, there will be a lot of listening to the great music that has shaped so many of us over the years. It may even shed light on some of your teachers and parents!

Swimming & Field Games (AM)

Teacher: TBA

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Just Be - Yoga and Mindfulness (PM)

Teacher: Paige Bloom

Dive into the journey of the yogic path through this weeklong seminar. Students will be exposed to the many positive impacts of a yoga practice as they move and challenge their bodies, minds and souls through asana, meditation, and collaborative mat chats. Students will be provided with opportunities to deepen their sense of self, learn stress relieving strategies, and continue to develop a healthy body image all in a fun, supportive, non-competitive environment.

Week 5: July 30 - August 3

Adventurers (FD)

Teacher: Andrea Robinson

Day trip enthusiasts - let's go! Over the course of the week, the Adventurers will go on day trips throughout our region. Possibilities may include hiking in the Pine Barrens, tubing on the Delaware River, Canoeing, Indoor Rock Climbing, and a visit to Barnegat Lighthouse State Park.

*This is a full-day course. An additional transportation fee will be required for this course

Singer/ Songwriter Workshop (AM)

Teacher: TBA

Come and share your passion for music. Students will spend the week exploring ideas for singing and songwriting, workshopping these ideas with their peers, and laying down tracks using recording equipment. Some musical experience is preferred.

Swimming & Field Games (PM)

Teacher: TBA

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Woodworking (PM)

Teacher: TBA

Using the MFS Wood Shop, Senior Scholars will spend the week working with wood. As they develop a project and follow it to fruition, the satisfaction and aesthetic of this beautiful material will be evident. Bring your creativity and design thinking!

Week 6: August 6 - 10

Multicultural Philadelphia (FD)

Teacher: TBA

Based on a popular Intensive Learning course at MFS, students will engage with the dynamic multiculturalism of Philadelphia. Students will travel from MFS to different neighborhoods of the city, meeting with local residents and understanding how different cultures weave together to create the fabric of the city. Lunch each day will be at a neighborhood restaurant reflecting popular local fare (included in cost).

*This is a full-day course

*An additional transportation fee will be required for this course

Architectural Design with CAD (AM)

Teacher: TBA

Using Computer Aided Design (CAD), students will explore the basic principles of architecture as they design buildings. This course will include some study of various architectural techniques, as well as examination of their use in historically significant buildings.

Swimming & Field Games (AM)

Teacher: TBA

While students are spending half of this block in the pool (75 minutes), the other half of the time is spent playing fun games out on the fields or in the gym during inclement weather. Depending on interests of children, there will be flexibility in the programming. Activities may include soccer, basketball, dodgeball, volleyball, badminton, ping pong, tennis, lacrosse, wiffle ball, flag football, and more.

Music Video Production (PM)

Teacher: TBA

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!