



# *Medical Science Academy 2023*

"A Medical School Primer for High School Students"

June 5 – June 16, 2023

We are pleased to announce LECOM Bradenton's 2023 Medical Science Academy (MSA). This two-week summer experience will provide an opportunity for high school students to interact closely with faculty and medical students from the College of Medicine. In the first week, students will attend classes in large and small groups as well as participate in hands-on laboratory activities and an interactive suture skills session with volunteers from the US Army. Additionally, in the second week, students will receive Basic First Aid training, CPR training, Stop the Bleed training, tour Blake Hospital's trauma bays, operating rooms, step down units, emergency medical helicopter, and interact with the medical flight crew. The second week will also include LECOM Dental Day in which the students learn from LECOM faculty and participate in simulation lab as well as LECOM Pharmacy Day where students learn from LECOM faculty and participate in a compounding activity.

## **MSA Family Night Tuesday, May 16, 2023, 5:30 p.m.**

MSA students and their parents will gather in **Lecture Hall 211 in LECOM's College of Medicine (COM) Building** which is located at **5000 Lakewood Ranch Blvd.** The following activities will take place during this meeting:

- Welcome & Introduction of MSA Staff
- MSA Program Description
- Distribution of Anatomy & Physiology Textbooks (to be returned to LECOM on Friday, June 16<sup>th</sup>)
- Parental Signature on required documents for participation in MSA.
- Tour of LECOM's College of Osteopathic Medicine facility

## **Description of Activities**

### **WEEK ONE: LECOM College of Osteopathic Medicine, 5000 Lakewood Ranch Blvd, Bradenton, FL 34211**

- Formal lecture-based presentations provided by the College of Medicine faculty based on the central theme of Cardiology. The students will take a short quiz on what they learned.
- Problem-Based Learning (PBL) Cases on topics related to the Cardiology lecture theme.
  - This small group setting is the same way our LECOM medical and dental students learn their material. MSA students will be divided into PBL groups consisting of approximately 8 students with second year Osteopathic Medical School students (OMSII) as instructors. Students will discuss and learn about patient cases from a primary care perspective simulating real life patient and clinical scenarios. The PBL groups will have four days to understand the patient's condition and develop a diagnosis exploring the basic medical sciences (Anatomy, Physiology, Biochemistry, etc.) associated with the case. They will have two hours on the last day of week one to prepare a grand rounds type presentation of the case, which will be delivered during the graduation program Friday, June 16<sup>th</sup>.
- The LECOM College of Osteopathic Medicine campus cafeteria will provide the students with a box lunch and snacks for week one. Students may bring their own lunch and snacks which are to be stored in a

designated MSA section in the cafeteria. According to LECOM policy, no food or drink is allowed in rooms outside of the cafeteria.

## **WEEK TWO:**

- During the second week of the program, MSA students will be divided into 2 groups. Groups will be assigned a morning session or afternoon session during which time they will participate in a variety of health-related activities including Dental Day, Pharmacy Day, and Trauma Day at Blake Hospital. Students will also spend a FULL DAY at Manatee Technical College where they will undergo Basic First Aid certification and CPR certification. LUNCH WILL BE ON YOUR OWN FOR WEEK TWO.
  - **Manatee Technical College (MTC)**  
5520 Lakewood Ranch Blvd.  
Bradenton, FL 34211
  - **Blake Hospital**  
2020 59<sup>th</sup> Street West  
Bradenton, FL 34209
  - **LECOM School of Dental Medicine (Dental Day)**  
4800 Lakewood Ranch Blvd.  
Bradenton, FL 34211
  - **LECOM College of Osteopathic Medicine (Week One, Pharmacy Day, and Graduation)**  
5000 Lakewood Ranch Blvd.  
Bradenton, FL 34211

## **MSA 2023 SCHEDULE OF ACTIVITIES**

	<b>Week One - June 5<sup>th</sup> - 9<sup>th</sup></b>
<b>8:00am-4:30pm</b>	LECOM College of Medicine Campus – <b>5000 Lakewood Ranch Blvd, Bradenton, FL 34211</b> <ul style="list-style-type: none"><li>• Formal lectures</li><li>• PBL Cases</li><li>• Labs</li></ul>

	<b>Week Two – June 12<sup>th</sup> – 16<sup>th</sup></b>
<b>Times will vary</b>	Students will be working at various sites this week. <b>*Please indicate on the Online Registration Form linked below if you prefer an AM or PM timeslot.</b> A finalized schedule of the week will be handed out at Family Night on May 16 <sup>th</sup> at 5:30pm. <b>Please refer to the addresses listed above under Week Two.</b>

## **MSA Graduation Program**

The PBL teams will present the finding of their PBL case to the whole MSA class and families. Each individual PBL team member will have a part in the presentation. Certificates of participation in the MSA program will be awarded and prizes will be distributed for top quiz and PBL performers.

**Registration Fee & General Expenses - Registration will be confirmed upon receipt of payment.**

**Registration fee is \$275 for the following items:**

- \$100 MTC Instructor fees
- \$25 LECOM Medical Science Academy shirt
  - \$30 Anatomy/ Physiology Textbook rental
- \$45 Laboratory and Physical Examination materials
  - \$35 Lunches & Snacks
  - \$40 Miscellaneous program supplies

**Make Check payable to: Lake Erie College of Osteopathic Medicine (LECOM)**

*Either hand-deliver or mail check to:*

*LECOM Bradenton  
Attention: Tara VandeHei  
5000 Lakewood Ranch Blvd.  
Bradenton, FL 34211  
phone: 941-782-5758  
e-mail: [tvandehei@lecom.edu](mailto:tvandehei@lecom.edu)*

**CLICK HERE TO REGISTER FOR MSA June 2023**

**Registration will be confirmed upon receipt of payment.**

**[LECOM Medical Science Academy Registration Google Form](https://forms.gle/m5SyTP7RNt283r5t5)**  
(<https://forms.gle/m5SyTP7RNt283r5t5>)