



LEHMAN CATHOLIC HIGH SCHOOL

Cavalier Crier

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The Art of Advanced Anatomy by Tim Langenderfer and Abby Jones



Above: Mr. Tim Langenderfer discussing the bones of the elbow.

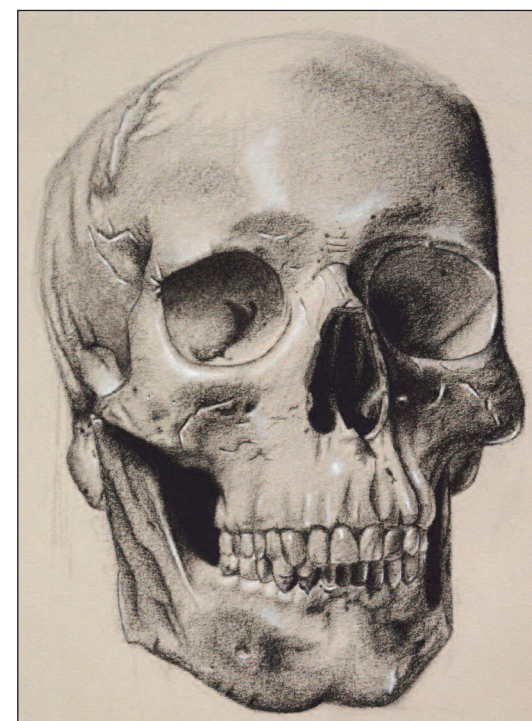
Below: Grace Brandt's elbow rendering.
Below, right: Mrs. Tracy Hall observing the art work of senior Hailey Wick (l) and junior Allison Bornhorst (r).



Inspired by a recent faculty meeting focused on incorporating integrated learning methods in the classroom, a lot of teachers have taken to new methods. Mrs. Hall, Lehman's Advanced Anatomy instructor, has taken on this initiative full force. One way that Mrs. Hall is making her classroom more hands-on and interactive is through the use of art. With help from the art instructor, Mr. Langenderfer, the Anatomy class participated in a workshop-style anatomy drawing project.

Recent studies have shown that combining fine motor skill learning such as drawing with traditional reading and memorization techniques help to develop additional neural pathways. Stanford University School of Medicine now has figure drawing classes offered for med students and the Columbia University College of Physicians and Surgeons offers art to increase observational skills.

During the class, the students sketched Dr. Frank Netter's, *Bones of the Elbow, In extension: posterior view*. Despite some of the students having little art experience, Mr. Langenderfer was able to demonstrate a systematic method of drawing and the technique of cross-hatching. Once the bones of the elbow were successfully traced, the students went on to one of the seemingly easier, yet most important part, shading.



Above: Elliott Gilardi's finished skull rendering.

One of the Anatomy Students, Maddy McFarland stated "It was a lot of fun and definitely a change of pace. We all were a little skeptical going in, but it really helped me to learn the anatomy of the body more than from just looking at a diagram."

Mrs. Hall and Mr. Langenderfer have plans to build on these integrated learning techniques by teaching the anatomy students clay modeling. The students would then be able to apply this technique when they begin their clay anatomy learning project with a model skeleton to get a more hands-on experience.