

## College Application Essay Examples Why Us

**Essay Prompt: Tell us why the depth, breadth, and flexibility of our curriculum are ideally suited to exploring the areas of study that excite you.**

Whenever I have time on my hands, I hook myself up to my EEG and analyze my brain waves. Or if I am feeling slightly less adventurous, I am reading about the latest neuroscience trends in ScienceDirect or NCBI PubMed. I want to spend my life studying, understanding, and helping to fix the human brain.

I bought my EEG online two years ago for about \$150 and have used it to compare the beneficial effects of both circadian and non-circadian sleep on the brain by analyzing the number of clear peaks in a 3-minute interval of a theta wave. But just counting the peaks is not the best way to measure the benefits. I look forward to gaining a deeper understanding of the fundamentals of neurophysiology (as well as working with better equipment) in courses like Principles of Neurophysiology. As someone who has long been passionate about neurotechnology, the fact that Cornell is unique in offering classes devoted specifically to the field is very important to me.

I would also like to be able to contribute my experiences with neurotechnology to support the cutting edge research in Cornell's brand new NeuroNex Hub. I would love to work with Dr. Chris Xu in expanding the current three-photon microscope to be applied on various animal models. I also look forward to helping Dr. Chris Schaffer, whose research on deep neural activity is not being done anywhere else in the world. I freak out at the possibility of helping him develop a tool to look at multiple brain areas at the same time.

Though I have long aspired to study at Cornell, when I visited and sat in on Neurobiology and Behavior II, it made me all the more determined. I found Professor Christiane Linster's presentation on synaptic plasticity absolutely riveting. Her animations of neurotransmitters crossing a synapse and new synapses forming in neuron clusters kept her students engaged in a way I have not seen in any other classrooms. I want to go to Cornell because of teachers like her.

During my visit I also enjoyed talking with Kacey about her experiences in the college scholars program. I loved that she had studied the effects of circus and gymnastic performances, like Cirque Du Soleil, on therapy for children with neurological disabilities. I am very excited by the idea of combining neuroscience with something like the effects of learning a classical language on developing brains. Many studies have shown the plethora of positive effects of being bilingual, but not much research has been done on classical languages. I have been studying Latin for over seven years, and I have experienced firsthand the positive effects. I spend hours every day breaking down complex sentences such as those in Vergil's Aeneid, and so have extended this approach to problem-solving to other aspects of my life, like my neuroscience research. This is the program I would create for my college scholars project.

Cornell is also the only university I am interested in that offers a speaking course in Latin: Conversational Latin. For the past six years, I have rarely had to translate more than a few sentences at a time from

English to Latin, never truly experiencing the unique grammatical features of Latin, such as intricate word play by Catullus in his Odes, that drew me so much to this language. I would love to supplement my knowledge by being able to formulate my thoughts in Latin and actively immerse myself in the language. I am really excited about learning the language as it was meant to be learned, as well as the new perspective it will provide me on Latin rhetorical artifacts.

As a kid who loves inventing, enjoys interactive learning, and wants to speak a dead language, I know Cornell is where I want to be. I wonder if my roommate will mind if I bring my EEG?