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Peabody Hall Science Lab Redevelopment

Scientific understanding is a curriculum requirement for all Husson's academic programs. The University's health science programs have seen tremendous growth over the past decade. In fact, the number of students taking biology has doubled over the past three years, as a result of changes in curriculum and increases in enrollment. Moving forward, investment in our health science programs will provide additional growth opportunities for the University and expanded career opportunities for our students.

Current Assessment

Due to an aging population, projected growth in the healthcare fields is expected to grow much faster than average through 2029, according to the U.S. Bureau of Labor Statistics. At the same time, clinical laboratories face a shortage of workers, as a result of an increased demand for laboratory services and retirement in an aging workforce. Husson has responded to this need by developing several new healthcare programs. In addition to the current challenges, diagnostic technology is rapidly changing, due to advances in healthcare.

The need for a new biology lab and the renovation of existing lab space is critical to meeting continued growth in our health science programs. Our original lab spaces were built in 1969; some labs were upgraded in 2008 to accommodate the pharmacy program. As a result of strong enrollment and curriculum demands, we have outgrown our existing lab footprint, both in size and layout. Lab spaces need to be restructured and renovated to support the advancement of our academic programs.

The Opportunity

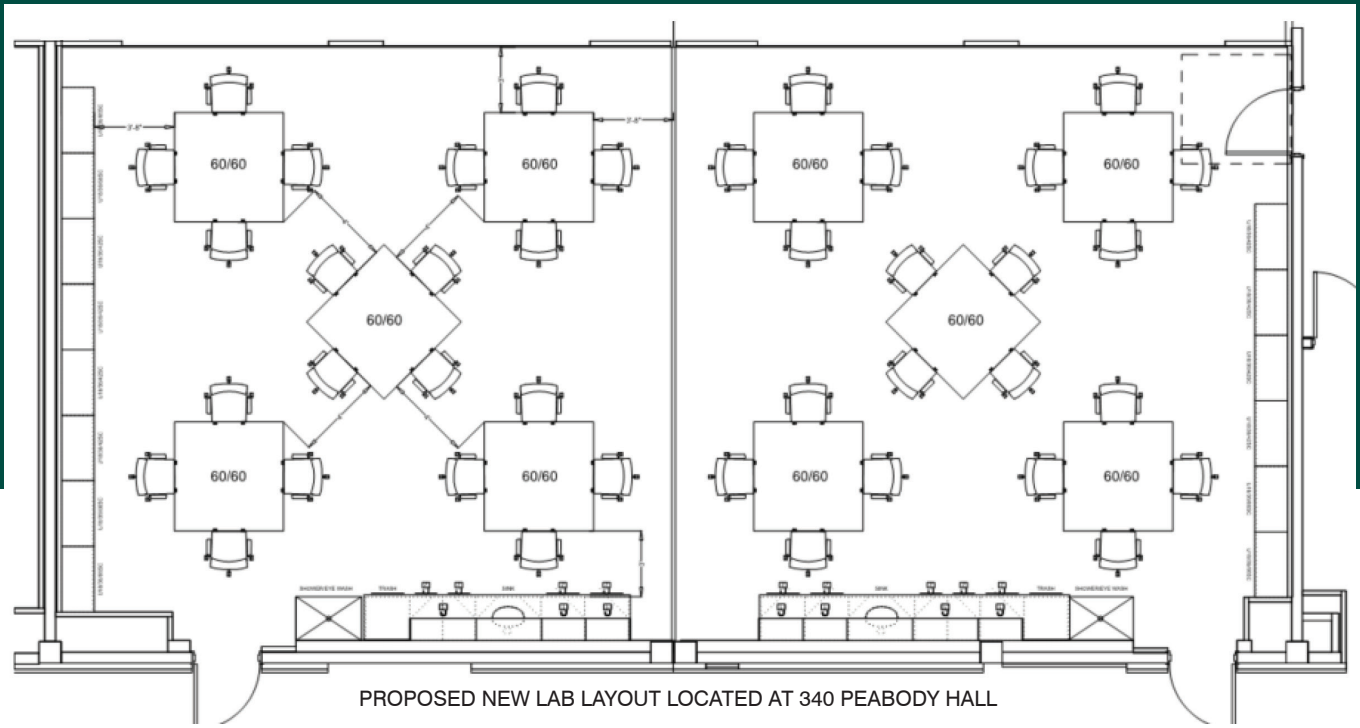
The creation of a new state-of-the-art biology lab, along with renovation of current space, will create a more efficient and agile lab space for students and faculty. Transformed laboratory spaces will provide additional opportunities to expand research and skills-based training that prepares students for jobs or graduate school.

This project will allow the addition of new equipment and space which will meet our future needs. It is a critical project for the University; it will improve function, increase efficiency, enhance the student experience and be adaptable to future enrollment growth. These improvements will increase recruitment opportunities for new students and strengthen our retention efforts. The new space will provide better experiential learning opportunities and afford us the opportunity to grow with the addition of new academic programs.

This project includes the creation of a new biology lab, five renovated lab spaces, new lab ventilation and upgraded equipment. The estimated budget for this project is just over $1 million.

SCIENCE LAB RENOVATION NAMING OPPORTUNITIES

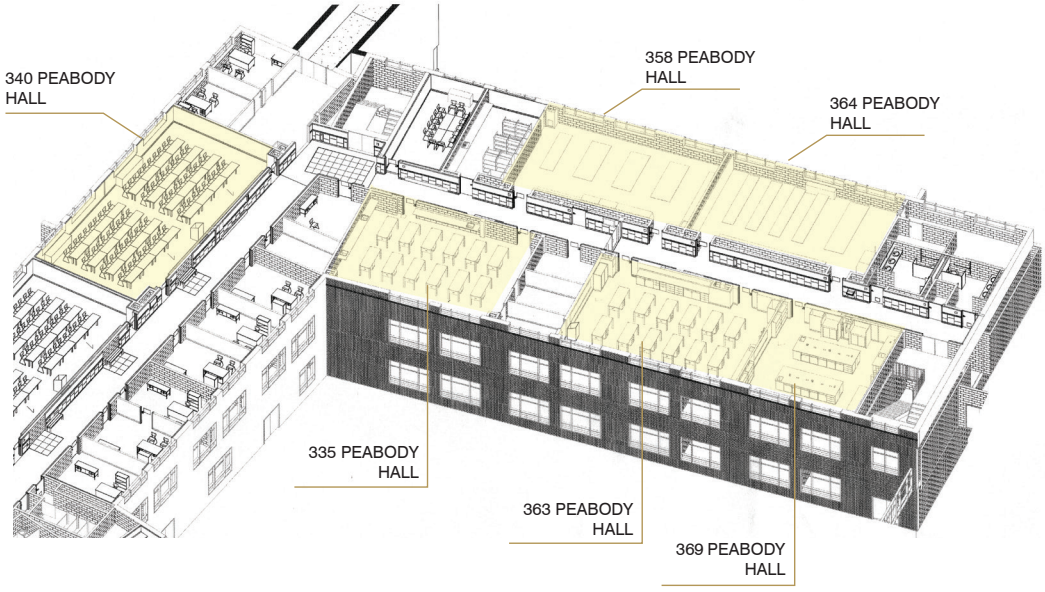
Science Lab Wing	$500,000
Biology Lab *New lab for 36-40 students*	$250,000
Nuclear Magnetic Resonance (NMR) **Spectrometer**	$120,000
Advanced Chemistry Lab *with NMR and 3D printer*	$100,000
Microbiology Lab *outfitted with new equipment (Biosafety II)*	$75,000
Physical Science Lab *moved from 1st floor Peabody*	$50,000
Chemistry Lab	$50,000
Anatomy and Physiology Lab	$50,000
Biology Laboratory Office	$15,000
Chemistry Laboratory Office	$15,000
Chemistry Storage Space	$10,000
Microbiology Storage Space	$10,000



PROPOSED NEW LAB LAYOUT LOCATED AT 340 PEABODY HALL

Emerging Technology for Students and Faculty

The purchase of a Nuclear Magnetic Resonance Spectrometer (NMR) will better prepare our students and provide them with additional pathways for graduate school and expanded employment options; it will also be a great asset in the recruitment of prospective students.



What is a Nuclear Magnetic Resonance (NMR) Spectrometer?

Estimated cost: $120,000

An NMR is an instrument used to identify chemical compounds based on radio frequency signals. Currently, Husson science students are given data generated by NMR equipment and asked to analyze it in order to identify compounds. However, they do not have the opportunity to learn how to produce the data themselves. Students intending to pursue scientific careers in a wide range of disciplines including pharmacy, biotechnology, medicine, or forensics will benefit from learning how to use the NMR to analyze samples in a hands-on, experiential teaching lab. The ability to operate this emerging technology will provide students with a valuable edge as they enter the workforce.

Our teaching labs are designed to accommodate a benchtop NMR, a smaller, space-saving unit. The benchtop NMR functions using an electromagnet in a minimum amount of space, and provides students with a state-of-the-art experience at half the cost of a traditional NMR. Acquiring this instrument carefully balances the University's resources while ensuring our students are even more competitive for a broad range of careers in science fields.

Husson inspires and prepares students for professional careers in current and emerging fields within the context of an education informed by the sciences and humanities.

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To learn more about how you can support the success of students at Husson University contact:

Warren Caruso
Executive Director of Major Gifts
carusow@husson.edu
207.992.1963 | 800.726.7073
1 College Circle | Bangor, ME 04401-2929 | **husson.edu**