Proposed Expansion for the College of Engineering
Center for Engineering Education and Research (CEER)
SECURING OUR FUTURE

Villanova’s College of Engineering is committed to being a leading innovator in engineering education, one focused on the holistic—academic, professional and personal—development of each student. The “whole brain” engineers we prepare and educate will be the technical leaders of the future, solving tomorrow’s complex global challenges. To achieve this vision, the College of Engineering will continue to introduce innovative educational paradigms that emphasize hands-on, experiential and collaborative learning, which require new physical spaces. Your gift to the CEER expansion project will provide the infrastructure the College needs to reach its fullest potential.

"The CEER expansion is vital to our ability to remain a leading, innovative college of engineering."

Gary A. Gabriele, PhD, Drosdick Endowed Dean
Villanova University College of Engineering
The College routinely emphasizes collaboration, teamwork and community, yet finds itself lacking the space needed to foster them. The 4,600-square-foot student learning commons will enclose the current patio space and provide a place for:

- Students to work together on multidisciplinary team projects
- Seminars and lectures
- College and University events

“\textit{In order to expand the minds of future engineers, there needs to be more academic space and growth within the College. Allowing space that facilitates a collaborative environment for students will help foster Villanova’s commitment to producing young engineers prepared to meet tomorrow’s challenge.}”

Christine Alizzi ’13 CEE

The new engineering innovation lab will be a high bay that allows the space for students to work on scalable real-world engineering projects in a facility designed to support the College’s teaching and learning model.

A two-story, 3,330-square-foot open garage/high bay space, complete with a large, overhead crane, that will:

- Enable hands-on engineering work that cannot be taught in a classroom
- Expand the undergraduate research program and space for co-curricular projects
- Be conveniently located near the CEER machine shop for full-size student projects
The Hub will serve as the administrative “home” for the College that provides a professional space for welcoming everyone from prospective students to industry representatives. Equally important, the creation of this space allows the College to reclaim valuable academic and research space for faculty, undergraduate and graduate students. The Hub will be a two-story, 5,430-square-foot administrative office space providing:

- A Dean’s office suite to accommodate the College administration and staff
- A multimedia conference room space for College/industry meetings
- Seven offices for engineering staff

Excellent facilities attract excellent faculty talent, which results in an excellent education.

John and Michele Dearborn, parents of Gregory ’12 ChE and Christopher ’15 ChE, and College of Engineering benefactors

TOTAL COST OF THREE-PART EXPANSION: $10,000,000—funded through donor support

Naming Opportunities:
- Engineering Hub: $3,500,000
  - Dean’s Suite: $500,000
  - Multimedia Conference Room: $250,000
  - Individual Offices (7): $50,000 each
- Student Learning Commons: $3,000,000
  - New Green Roof: $150,000
  - Solar Panels: $100,000
- Engineering Innovation Lab: $2,500,000 – Funded
  - New Green Roof: $150,000
  - Solar Panels: $100,000
- Lobby/Reception Area: $1,000,000
  - Video wall: $200,000
- Innovation Lab Equipment
  - Overhead Crane: $250,000
  - Small machine shop area with power tools: $100,000
  - Model shop with woodworking power tools: $100,000
- Existing Green Roof: $150,000
College of Engineering Highlights

Ranked among the top 15 "Best Undergraduate Engineering Programs" in the country, according to U.S. News & World Report.

Innovative first-year curriculum, recognized in The Chronicle of Higher Education, provides freshmen with an active-learning, problem-based curriculum that gives them a multidisciplinary, hands-on experience from which they are more fully prepared to select their major and succeed as upperclassmen.

Service learning experiences give students the opportunity to use their engineering expertise and passion to make a difference in the lives of others across the street and around the world.

College of Engineering Fast Facts

• Total undergraduate enrollment (Fall 2013): 991 students
• Percent of female undergraduate engineering students: 28% (versus the national average of 18.2%)
• Percent of undergraduates who were in the top 25% of their high school class: 96%
• Percent of freshmen class who returned to the College as sophomores: 90%
• Number of University honor students: 69
• Total number of full-time tenure track faculty: 63 professors; 20% are women
• Average starting salary of graduates: $58,329

Contact: Cynthia Rutenbar
Director of Development
College of Engineering

cynthia.rutenbar@villanova.edu
610.519.6973

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