Peerless Places to Learn for the Next Generation of Nurses

Design Services for College Nursing Buildings
The nursing profession is in great transition. New treatments and technologies, managed care, an aging population and more informed patients create great responsibilities and great opportunities for our country’s nurses. America’s 1,900 nursing programs play the most important role in preparing student nurses to participate in crucial roles in this rapidly evolving healthcare system.

Deans, provosts, academic leaders and facilities executives at many nursing schools are re-evaluating teaching methods, lab experiences and the buildings themselves. Their goal: ensure the students who pass through their doors are ready for the new demands of the nursing profession.

Over the past decade, EYP has played a leading role in bringing nursing school buildings into the 21st century, with 14 projects completed to date, and more in the works. We have designed facilities for some of the country’s elite nursing school programs: at New York University, the University of Pittsburgh, and the University of Texas, among others. We have helped these institutions plan and build entirely new buildings and transform outdated lecture halls and laboratories into flexible, immersive spaces that enable innovative teaching and highly effective learning. These buildings also replicate the settings and collaboration among health professions that nurses will experience in the real world.

EYP has more than 35 years’ experience in the design of all types of health education buildings, as well as others: science and technology centers, student centers, residence halls and more. Our client list includes nearly 350 colleges and universities around the United States.

I invite you to explore this brochure. We showcase the nursing school buildings we’ve designed and how they’ve helped our clients develop skilled and compassionate nursing professionals, while elevating the credentials of their nursing programs.

Andy Wong, AIA, NCARB
Health Education Expert, Principal
EYP Architecture & Engineering
The Vast Educational Challenges of Today’s Nursing Schools

Nursing schools must educate nursing professionals who can do much more complex work and serve as essential members of medical teams – teams of doctors, specialists, pharmacists, social workers and other nurses. As medical advances unearth new perspectives on illnesses and complex treatments, nurses must quickly grasp and adapt to new protocols and treatment regimens.

As increasingly specialized technologies unearth unprecedented information about patients, nurses must receive training on how to access and interpret that data. They also play an increasing role in educating both patients and families about their treatment options and choices.

Given these significant changes, nursing schools must graduate nurses with many more skills. In particular, nursing and other health education schools must shift their teaching methods from one based on memorizing information to one emphasizing critical thinking, and then applying it in often life-and-death situations.

As a result, many colleges are rethinking how they educate their nurses. A number have already shifted their focus from imparting knowledge to practicing skills in realistic settings and scenarios, utilizing sophisticated simulation technology and narrative pedagogy.

But new teaching strategies also require different teaching spaces – flexible facilities that can support program growth, accommodate next-generation equipment, allow hands-on practicing of new treatments and evolve to keep pace with the critical skills shortage.

Fortunately for the US healthcare system, many of the nation’s nursing schools have risen to the challenge. They’ve introduced new faculty and other staff, new curriculum, new learning experiences, new technologies and innovation.
How EYP Has Helped Nursing Programs Create Breakthrough Learning Environments

EYP’s design expertise in nursing school buildings is both deep and differentiated. As you will see in the pages that follow, the buildings we’ve designed have helped many top nursing schools attract and develop legions of future nurses.

Our new and renovated buildings create environments that feature design strategies informed by these widespread and emerging nursing education trends:

**Simulation**
We create buildings that provide flexible simulation spaces for students to use high-fidelity simulation software, mannequins and standardized human patients.

**Active Learning Environments**
Our projects have replaced cavernous, stuffy lecture halls with highly interactive and flexible learning environments.

“Narrative pedagogy – creating a fictitious situation about a patient, then allowing the students to practice treatment on high-fidelity mannequins in a realistic setting – is a major trend in how nursing schools teach. The nursing school classroom must allow for this hands-on learning.”

Jennifer Amster AIA, LEED AP
Academic Planning & Design
Student Interaction
Successful nursing school buildings include “soft spaces” such as lounge areas where students and teachers can socialize, study and continue discussions. They become campus destination centers by locating cafes inside the building, which encourage students to stay longer. Finally, they put nursing education on display through transparent walls for students majoring in other subjects, generating interest in the discipline.

Inter-professional Education and Advanced Nursing
To prepare student nurses for a team-based healthcare environment, nursing school buildings should encourage inter-professional learning across health professions. This means providing spaces for a range of specialized and cross-professional simulation experiences, and flexible labs for clinical and molecular research. We have helped schools build facilities that co-locate programs and share teaching and/or research laboratories on the same floor, which promotes inter-professional collaboration. Many nursing school buildings also include clinics that provide real-world environments for student teams to deliver healthcare to real human beings under the supervision of faculty.

Along with helping our clients address these key trends in nursing education, we also work with them to ensure their new or renovated building is the right size, taking into account a school’s projections for student enrollment. The spaces are also flexible enough to change when new teaching strategies, technologies or treatments warrant it.

As you’ll learn from our client stories on the following pages, exciting and dynamic spaces can help attract more top nursing students and talented nursing faculty.
Up Close: Four Transformed Nursing School Environments

Immersive environments for systems- and team-based learning ease the transition to real-world clinical collaboration. The following projects – just four of the hundreds that we have completed for colleges and universities nationwide – showcase how new or renovated buildings are helping our clients address nursing education trends and better prepare future nurses for their evolving roles on healthcare teams.

New York University
New York, NY
School of Nursing, School of Dentistry & Bioengineering Institute

University of Texas Medical Branch
Galveston, TX
New Health Education Center

Tidewater Community College
Virginia Beach, VA
Regional Health Professions Center

University of Pittsburgh
Pittsburgh, PA
School of Nursing, Victoria Hall Master Plan
Fostering inter-professional education and student interaction

To attract and better serve the very best students, 433 First Avenue provides a gracious, unified spatial experience. It co-locates programs in nursing, dentistry, and bioengineering to cultivate a unique team-based model for educating healthcare professionals in environments that enhance collaboration, research, teaching, and community service. An attractive Learning Commons promotes inter-professional interaction and community, and “one-stop shops” give busy students easy access to student services.

Medical simulation training improves patient safety by enabling future healthcare professionals to “practice on plastic,” which helps students master advanced techniques. Simulation spaces are efficiently designed for flexibility and adaptability. Large labs are dividable to support a range of cohort sizes and functional situations, from basic skills training to specialized hospital scenarios. Simulation labs for acute and specialized care are designed with integrated debrief rooms and control rooms for maximum flexibility. All control rooms provide visual sightlines into the simulation labs as well as into the debriefing rooms.

Teaching spaces are infused with innovation and technology. Large classrooms are designed to enable the pedagogical transition from lectures to small group, team-based learning. That allows a cohort to remain engaged in the same classroom during the course of long scheduled classes, optimizing precious space in the building.

The building is a 170,000 SF LEED Silver-designed facility. The latest systems and equipment – from LED lighting to controllability of HVAC systems – enhance occupant experience and improve energy performance.

The new nursing building we designed for NYU’s Rory Meyers College of Nursing helped the school earn a prestigious award in August 2016: the National League for Nursing’s designation as a Center of Excellence in Nursing Education for 2016-2021. The NLN cited the school’s efforts in creating environments that enhance student learning and professional development.
University of Texas Medical Branch

New Health Education Center

Galveston, TX

Creating active learning environments

The Health Education Center at the University of Texas Medical Branch at Galveston (UTMB), scheduled for completion in 2018, will consist of 160,000 GSF of resilient and advanced technology education space.

The HEC will promote inter-professional education in all UTMB schools, which include nursing, health professions and medicine, along with professional education for residents, nurses, physicians and staff.

The facility will be the home of a new centralized Simulation Center for the UTMB campus. It will feature flexible and specialized labs, including an OR/ICU Suite, a Standardized Patient Suite and flexible simulation labs for the UTMB health education community.

The large learning labs will accommodate a range of simulation technology and will be specifically sized to bring interdisciplinary teams together. The labs will also be designed to integrate simulation spaces and debrief spaces to create an immersive experience for students.

The Health Education Center will also include large flat-floor classrooms to enable “flipped classroom” pedagogy, study spaces, educational offices and administrative space. All of this will help UTMB manage the growth of its health education programs and increase in exposure to hands-on simulation.
floor plan axon
building section
Tidewater Community College
Regional Health Professions Center
Virginia Beach, VA

Designing spaces for simulation and inter-professional education

The Regional Health Professions Center (RHPC) co-locates all TCC’s health professions programs in a unified inter-professional facility that serves as a new gateway on the Virginia Beach campus and is designed to train health professionals in a wide range of specialties using teaching labs that simulate the continuum of care that one might experience in a range of health care settings.

The 65,000 GSF building draws on a wide range of teaching laboratories that simulate real-world medical environments including ambulance simulation and emergency rooms, simulated operating rooms, radiology labs, sonography labs, and nursing teaching labs that simulate a hospital environment. Among the 15 simulation spaces, an innovative instructional ambulance bay allows students to meet and transfer “patients” to a simulated emergency room.

The facility also includes a two-story "apartment" that functions as a teaching laboratory for daily living to train emergency technicians as well as occupational therapists. Several of the teaching labs are used as clinics for the people in the local community surrounding the campus, and the facility also serves a large professional health care community with continuing education opportunities.

The sustainable design of the RHPC supports the LEED Platinum aspiration of the college’s Operation Smile project.
University of Pittsburgh
School of Nursing, Victoria Hall
Master Plan
Pittsburgh, PA

Planning active learning and simulation environments

Pitt’s School of Nursing nationally ranks fifth in US News & World Report’s best graduate schools, and sixth in research funding from the National Institutes of Health. In 2016, The School of Nursing brought EYP in to create a master plan for modernizing its Victoria Hall to meet current and emerging trends in nursing education, ensuring Pitt maintains its leading position among its peers.

The school needed to create diverse programs customized to the individual student’s career goals, as well as expand programs that better prepare students to face the changing healthcare arena. To address these goals, EYP planned for new Skills Labs that include immersive simulation rooms to support programs as diverse as Telehealth and Midwifery, wet bench BSL-2 research laboratories, clinical research areas, and student study spaces throughout the building for formal and informal groupings. We helped the school identify opportunities to upgrade and improve infrastructure for system capacity and reliability, as well as improvements to the vertical transportation system for better student circulation.

The master plan accomplished a full evaluation of the four-story 125,000 SF, 50-year-old building to understand current utilization and identify ways the space could be better used. Following in-depth discussions on pedagogical and academic goals, we worked with Pitt to develop strategies for using their current space more efficiently, which would reduce the need to expand the building. The master plan offers a roadmap for institutional capital planning and an orderly campaign for phased renovations over a five-year span.
programming studies

vertical circulation

Two new elevators & open stair from level 1 to 4 in lieu of Victoria escalators

Convert Lothrop tower into dual entry elevator pavilion with stair in lieu of escalators

New Lothrop entry

Extend pavement to provide open area at Lothrop entry & provide new vestibule with accessible entry

Two existing elevators to remain from ground to level 5; convert E1 to service/passenger elevator

Accessible entry

Bridge facade upgrade

Garage entry
Hundreds of Partnerships

EYP has collaborated with nearly 350 colleges and universities around the country on new or renovated buildings. Our professionals have long and deep experience in managing new construction and renovation projects at every stage – conceptualizing, planning, permitting, design, energy planning, construction management and interior design.

Our projects have included buildings devoted entirely to nursing schools; other academic centers for both nursing and other health professions; medical, dental and pharmacy school buildings; science and technology buildings; and dozens of other academic buildings, residence halls, and student centers.
Nursing Schools

2018
- The University of Texas Medical Branch at Galveston - Health Education Center
- University of St. Thomas - Center for Sciences & Health Professions

2017
- James Madison University - Health and Behavioral Studies Building

2016
- Trinity Washington University - Academic Center
- University of Pittsburgh School of Nursing - Victoria Hall Master Plan

2015
- Temple University - Old Dental School Renovation

2014
- New York University - College of Nursing, College of Dentistry & Bioengineering Institute
- University of North Carolina, Wilmington - School of Nursing

2011
- Tidewater Community College - Regional Health Professions Center

2009
- Stephen F. Austin State University - DeWitt School of Nursing

2008
- Dallas County Community College District - Center for Allied Health & Sciences

2007
- Del Mar College - Health Science and Technology Center

2006
- Prairie View A&M University - College of Nursing

2004
- Dominican College - Health Sciences Building Prusmack Center

1994
- Montgomery College - Health Sciences Building
- SUNY Upstate Medical University - Health Science Center Library
Medical Schools
Boston University - School of Medicine
Columbia University - College of Physicians and Surgeons NMR Lab
Columbia University - College of Physicians and Surgeons Pyle Lab
East Carolina University - School of Medicine
Georgetown University School of Medicine - DLAR Vivarium
SUNY at Stony Brook - School of Medicine DLAR Animal Holding Facility
University of North Carolina, Chapel Hill - Bondurant Hall, School of Medicine
University of North Carolina, Chapel Hill - School of Medicine, Bioinformatics Building
University of North Carolina, Chapel Hill - Medical Education Building Study
University of North Carolina, Chapel Hill - School of Medicine (100+ campus renovation projects)
University of Pennsylvania School of Medicine - Richards Medical Research Building Renovations
UTHHealth - Cooley Center/ University Life Center
UTHHealth - Medical School Expansion
UTHHealth - Behavioral and Biomedical Sciences Building
University of Texas Medical Branch - Health Education Center
Virginia Commonwealth University Medical College of Virginia - Hunton Student Center
Yale University School of Medicine - Harkness Hall

Dental Schools
Columbia University Medical Center - College of Dental Medicine Expansion
East Carolina University School of Dental Medicine - Ledyard Ross Hall
East Carolina University School of Dental Medicine - Service Learning Center
New York University - College of Nursing, College of Dentistry & Bioengineering Institute
New York University College of Dentistry - Research Lab
Temple University - Old Dental Building Renovation
UTHHealth - Cooley Center/ University Life Center
UTHHealth - School of Dentistry

Pharmacy Schools
St. Johns University School of Pharmacy - Class Labs
University of Charleston School of Pharmacy - New Academic Center
Allied Health Professions
Dallas County Community College District - Center for Allied Health & Sciences
Del Mar College - Health Science and Technology Center
Dominican College - Health Sciences Building Prusmack Center
James Madison University - Health and Behavioral Studies Building
Mitchell Community College - Allied Health Building
Montgomery College - Health Sciences Building
Sam Houston State University - Chemistry & Forensic Science Building
SUNY Upstate Medical University - Health Science Center Library
Temple University - Old Dental Building Renovation
Tidewater Community College - Regional Health Professions Center
Trinity Washington University - Payden Center
University of North Carolina, Chapel Hill - Bondurant Hall, School of Medicine
University of North Carolina, Wilmington - Allied Health Building
UTHHealth - Cooley Center/University Life Center
Virginia Commonwealth University - Allied Health Professions Building

Public Health
Columbia University Medical Center - Mailman School of Public Health Strategic Plan
James Madison University - Health & Behavioral Studies Building
The Nathan Kline Institute for Psychiatric Research
New York State Department of Health - Wadsworth Center Genomics Institute
University at Albany - Gen*NY*Sis Center for Cancer Genomics

Biomedical Sciences
CCNY - Sophie Davis School of Biomedical Science
George Mason University - Biomedical Research Laboratory
Houston Methodist - Research Institute
Houston Methodist - The Fondren Building Research Labs
Jackson Laboratory - East Research Building
Jackson Laboratory - Genetic Resources Building
James Madison University - Health and Behavioral Studies Building
New York State Department of Health - Wadsworth Center Genomics Institute
The Nathan Kline Institute for Psychiatric Research
New York University - College of Nursing, College of Dentistry & Bioengineering Institute
New York University - Center for Neuroscience Research Labs
St. Luke’s Episcopal Texas Heart Institute - Cardiac Regeneration Laboratory
University at Albany - Gen*NY*Sis Center for Cancer Genomics
University of North Carolina, Chapel Hill - Bondurant Hall Medical Sciences Research Building
University of North Carolina, Chapel Hill - School of Medicine, Brinkhous Bullitt Renovation
University of Pennsylvania School of Medicine - Richards Medical Research Building Renovations
University of Texas at El Paso - Biosciences Facility
UTHealth - Cooley Center/University Life Center
UTHealth - Medical School Expansion
UTHealth - Behavioral and Biomedical Sciences Building
University of Texas MD Anderson Cancer Center - Faculty Center
USACE Baltimore Armed Forces - Medical Intelligence Center
Why EYP?

Why have nursing school leaders come to EYP over the last 40 years to help them design or renovate their nursing school buildings? The following are the most frequent reasons we have heard:

**We understand the nursing profession.**
Our 650+ professionals include those with deep knowledge of how today’s and tomorrow’s nurses will work; the environments in which they work; how new teaching methods are preparing students for their new roles; and how campus buildings can best serve those instructional goals.

We understand the latest trends in nursing academic planning and how to create immersive environments such as high-fidelity simulation labs, flexible classrooms to enable a range of pedagogical styles, and a range of spaces for informal learning. Everything we do is informed by research that EYP conducts about the healthcare environment and the evolving role of nurses.

**We understand education.**
We believe that successful academic environments balance individual and collaborative opportunity in a range of formal and informal settings that blends technology seamlessly into inviting and flexible spaces. We are leaders in the national discourse on innovative classroom design and participate in organizations such as Tradeline, the Learning Spaces Collaboratory and the American Association of Colleges & Universities’ Project Kaleidoscope.

**We understand the college environment.**
Along with nursing education buildings, we have extensive experience designing buildings that serve other health professions, science and technology majors, and other purposes. We understand how integrating different professional disciplines under one roof can prepare students for a more collaborative professional world.

We also have deep experience in managing the unique planning, permitting and construction challenges of a major project in the heart of a busy, vibrant campus setting. Each project is done with an eye toward helping the new or renovated structure harmonize with a campus’s venerable existing buildings.
We can quantify results.
Our post-occupancy research — uncommon in our industry — generates hard data about how well the new buildings attract new students, keep faculty members engaged and happy, and prepares students for their profession. This information is indispensable to our clients, who can demonstrate the results of the project to other administrators and investors.

The data also helps us advise future clients on which features best help them achieve their goals. Along with measuring a building’s impact on education, we also track how well the new space measures up to its energy consumption goals.

We provide buildings of beauty and lasting impact.
Our goal is to create beautiful facilities that express institutional vision and identity, promote occupant health and well-being, encourage inter-professional collaboration, and maximize energy performance for sustainability.

We’re the leading experts on sustainable academic buildings.
EYP architects, engineers and energy modeling experts work as an integrated team, championing beautifully smart solutions. For two years in a row, EYP has been ranked the #1 Sustainable Design firm in the country by Architect Magazine.

NEW YORK UNIVERSITY
College of Nursing, College of Dentistry & Bioengineering Institute
Client Testimonials

**UNC Hospitals, Imaging and Outpatient Center**
“The project was one of the best I have ever been a part of and there have been nothing but compliments throughout the community. The design had no issues that were ever a concern. The construction administration was very efficient, and EYP provided timely responses to all involved. It is very nice when a project runs as smooth as this one.”

_Steve Bryant, Construction Administration, UNC Hospitals_

**Virginia Commonwealth University, School of Allied Health Professions Building**
“EYP’s performance can only be described as outstanding. Because of the efforts of this dedicated, talented and highly skilled design team, we were able to advance the university’s top priority project for funding by the Virginia legislature on time.”

_Mary Patton Cox, University Architect_

**Prairie View A&M University, College of Nursing**
“The team’s combined university and medical facility experience was impressive. They kept us very well informed. Their strengths include communication, ability to listen, and commitment to see the project through successfully. The team works collaboratively and is dedicated to quality and customer service. I am 100% satisfied.”

_Dr. Betty Adams, Dean, PVAMU College of Nursing_

**James Madison University, Health & Behavioral Studies Building**
“There was a lot of collaborative work in the design, and collaboration among the architects and all of our programs in the college. That’s why it’s such a well-designed building.”

_Dr. Sharon Lovell, Dean, College of Health and Behavioral Studies_

**Tidewater Community College, Health Professions Building**
“EYP’s programming, design and construction administration team members are worthy of the highest praise. They are professional in all their actions, superb in the technical skills, imaginative in their design concepts, cost conscious in their solutions, responsive to changes and challenges, and loyal team members.”

_Dr. John Massey, Former Special Assistant to the President for Facilities Planning & Development_
About our Nursing/Health Education Practice

EYP has a core group of professionals dedicated to the design of facilities for integrated systems- and team-based education for medical, nursing, dentistry and allied health professionals. Our clients also have access to our 650 professionals nationwide who can deliver high-performance building design, research, and other specialized consulting services as needed.

EYP’s full array of services include design, energy planning, construction management, programming, interior design, life safety, signage and wayfinding, workplace strategy and design, and master planning. In addition, we draw upon the expertise from EYP’s health care practice to informs our design on healthcare trends and for real world applications.

These EYP professionals have led our innovation in campus buildings devoted to the healthcare professions. They include:

SAM HOUSTON STATE UNIVERSITY
The Woodlands Center, Nursing Program
Jennifer Amster AIA, LEED AP / Academic Planning & Design

Jennifer elevates the firm’s critical understanding of client needs and insight into higher education planning and programming. With a focus on medical education facilities, her ability to integrate high-performance design and functionality for clients speaks to her passion for creating built environments that enhance learning and improve outcomes for students around the country.

Jennifer applies her extensive experience to help project stakeholders and user groups identify and prioritize complex program requirements. Many of her projects incorporate new technologies and methodologies for team-based pedagogy and experiential learning, which makes her an ideal thought leader for the planning of premier facilities in higher education and academic medicine.

Elissa Kellett AIA, LEED AP BD+C / Project Executive

Elissa has more than 25 years of experience helping clients envision and realize capital projects that further their mission and reflect the character of their institutions. She has a particular passion for health education and is adept at delivering medical simulation laboratories and academic building projects for public and private institutions that create momentum, and attract students to campus.

Elissa works closely with clients through all phases of design, construction, and post-occupancy evaluation. Her experience includes undergraduate and graduate teaching facilities for science and health sciences. Her portfolio reflects a large collection of simulation intensive learning environments designed to promote inter-professional collaboration and team based learning. Her work with several community colleges on health professions centers has generated sophisticated simulation spaces for teaching and clinical spaces for practice and service to the community.

Andy Wong AIA, NCARB / Health Education Expert

Andy has more than 35 years of experience in the leadership and design of educational and institutional projects. He works closely with his clients to determine both their current mission and future goals and is helping to advance integrated, systems- and team-based education for medical, nursing, dentistry and allied health professionals through client-centered, high performance design.

Andy’s leadership in our health education practice has shaped an evidence-based approach which yields flexible, immersive, and active spaces that support interprofessional education, diverse learning styles, promote synergies for collaboration, and help prepare students for successful healthcare careers. From technology-infused environments for medical simulation to smart classrooms and labs to gracious soft spaces, his goal is a unified spatial experience that fosters learning in community.
About EYP

EYP Inc. is a global provider of high-performance building design, research, and consulting services. Our 650+ professionals work across 16 offices in the United States and Europe.

United by Purpose
We are five sectors – Higher Education, Government, Healthcare, Science & Technology, and Energy – who work as one firm. Together, our award-winning teams of EYP Architecture & Engineering, WHR Architects, and The Weidt Group® address some of the most critical issues facing our nation.

We believe that knowledge is as critical to great design as creativity.
Expertise – the deep knowledge that comes from research and experience – enables us to harness creativity in ways that deliver exceptional value to clients. Creativity, in turn, drives us to explore, question, and continuously advance our understanding of how the built environment influences human behavior – and how buildings and their systems impact the natural environment. The fusion of expertise and creativity realizes dynamic design that performs – for people, purpose, and planet – to enrich human experience.

Our Services
Architecture
• Design
• Graphic & Environmental Design
• Interior Design
• Life Safety
• Master Planning
• Planning
• Programming
• Workplace Strategy

Engineering
• Electrical
• Fire Protection
• Mechanical
• Plumbing
• Physical & Technical Security
• Structural
• Telecommunications

Energy
• Energy Modeling Analysis
• Energy Benchmarking Analysis
• Building Performance Optimization
• Energy Audits
• Energy Master Plans
• Net-zero Strategies
• Retro-commissioning

Contact
Andy Wong, AIA, NCARB
awong@eypae.com
eypace.com