

## NURSING LAB

### SPACE DESCRIPTION

The Nursing Lab is a dedicated, combined classroom and skills lab for lectures and hands-on instruction in the Nursing sciences. The labs require specific training equipment, support utilities, and space planning and must comply with all applicable accrediting standards. A Storage room and optional Patient Room adjoin the Nursing Lab.

The size of the Nursing Lab is dependent on the number of students served and is restricted by Instructor-to-Student ratios outlined by accrediting bodies. Nursing Labs must follow the National League for Nursing Commission for Nursing Education Accreditation (NLN CNEA) and Indiana State Board of Nursing.

The layouts shown are illustrative of basic concepts and spatial needs. Specific requirements may be accommodated on a project by project basis, according to each campus' needs.

The following tracks may be served by the Nursing Lab:

- Practical Nursing
- Licensed Practical Nurse (LPN)
- Associate of Science in Nursing (ASN)
- Certified Nursing Aide (CNA), at select campuses

As all programs in the Healthcare field quickly evolve and advance with technology, so too, must the space they occupy. The Lab shall be planned with flexibility and reconfiguration in mind.

### SPACE ACCREDITATION

Nursing Labs must follow the National League for Nursing Commission for Nursing Education Accreditation (NLN CNEA) and Indiana State Board of Nursing.

### SUCCESS FACTORS

**Combined space:** Training is most successful when instructors and students can move back and forth between lecture and skills practice.

**Experiential:** Students in the Nursing program are learning to care for real patients. They require all the necessary resources, practicing on Mannequins and using realistic equipment to experience and simulate real-life situations.

**Privacy:** Instructors require a dedicated patient bed in a semi-private space for student evaluations and check-offs.

**Storage:** Storage space is critical for linens, a gurney, and miscellaneous items.

### GENERAL

All perimeter walls shall be full height to deck.

Nursing Labs shall be planned for 1 instructor : 10 students with 5 patient beds, or 2 instructors : 20 students with 10 patient beds.

## ADJACENCIES

Separate but adjacent space is required for the following: **Storage**. An optional **Patient Room** may be included in the suite.

Ideally, Nursing Labs adjoin other programs in the healthcare sciences for efficiency in shared spaces and cross-training between programs. Nursing Labs shall be located within close proximity to faculty offices.

## ACOUSTICS

Acoustic ratings for Nursing Lab perimeter walls: STC 50. Special accommodations may be required due to location in the building.

Maximum recommended HVAC Background Noise: 40dBa

Follow the recommended methodologies and best practices for mechanical system noise control in ANSI Standard S12.60; the 2015 ASHRAE Handbook-- HVAC Applications, Chapter 48, Noise and Vibration Control (with errata); and AHRI Standard 885–2008.

Maximum NC Level for VAV's shall be less than 30 at maximum CFM

## MECHANICAL

Window or room unit systems are not acceptable in Nursing Labs due to poor acoustic performance.

Verify specific needs on a project-by-project basis while planning for flexibility in the future. Provide the following, at minimum:

- Hospital Bed Headwalls shall be equipped with Power, Oxygen/ Compressed Air, and Suction.
- Provide power and data for student laptops and devices at each patient bed.
- Provide handwash sinks with foot pedals or sensors. In 5-bed labs, (1) sink is required. In 10-bed labs, (2) sinks are required.
- Provide connections for washer and dryer in adjacent Storage Room, or nearby.

## ELECTRICAL & DATA

Place wall outlets at no more than 6' intervals or as necessary to allow for 30% coverage. When laptops are a requirement for learning, special consideration is necessary. Coordinate with data requirements.

- Provide power and data for:
  - o (2) projectors in the ceiling at the instruction wall
  - o Instructor station with PC
  - o Audio/ sound system to include instructor microphone, soundbars and wireless connection to student headsets as needed.
  - o Provide Power, Oxygen/ Compressed Air, Suction, and data at each bed location to simulate requirements in a typical hospital or clinic.

Provide power and data at 6' intervals along perimeter walls at locations which may be used for desktop computer workstations and/or lab equipment.

## LIGHTING

- Provide LED lighting system with appreciable indirect component and good diffusion for maximum visibility from all directions.
- Provide controls for zoning and dimming. Front row shall be switched separately with three preset dimmable levels: low, medium, high. Provide a dimmer switch at the Instructors Station.
- Provide task lighting at patient beds.
- Provide low-brightness luminaires with high visual comfort probability (VCP) in all viewing directions. Average 40fc at 30" A.F.F. Min CRI 80.
- Lighting watts per square foot and controls shall meet the latest requirements of ASHRE 90.1

## TECHNOLOGY

- Provide Wireless capability throughout Nursing Labs.
- Provide data outlets at same interval as power.
- Provide telephone service.
- Coordinate equipment for Instructor's Station and Ivy Tech standard classroom audio/ sound system

## ACCESSORIES AND EQUIPMENT

Equipment needs include:

- On front teaching wall, provide 16' wide projectable whiteboard with marker tray. Whiteboard shall be matte white, low-glare, 4.0 gain; and must support 16:9 projection dimensions.
- On side walls, provide 8'-0" tack strip mounted 72" A.F.F. and 8'-wide whiteboard with marker tray. Rolling whiteboards may also be used.
- Patient beds with the following:
  - o Headwall with utilities
  - o Over the bed tables
  - o Small whiteboard with marker tray
  - o Bedside tables
  - o Privacy curtains
  - o Ceiling- or wall-mounted IV hooks
  - o Patient bed lighting
  - o Wall mounts for ophthalmology scopes
  - o Wall mount for blood pressure cuff
- Wall-mounted glove dispensers
- Wall-mounted hand sanitizer dispensers
- Biohazard storage cabinet
- Hazardous Chemicals storage cabinet
- Mayo stands
- Rolling stools

## FURNITURE

Furniture shall be selected for flexibility and mobility. Provide the following standard furnishings for Nursing Labs:

- Tables and chairs on casters for flexibility and mobility, coordinating caster type with flooring material.
- Workstations shall have integral power and data connections.
- Wall and base cabinets with locks.
- Cabinets for mannequin storage. Storage shall be horizontal drawers with integral power.
- Stretchers

## FINISHES

### Ceilings

Recommended Height: 9' to 10', with special consideration to acoustics when greater than 10'.

Ceilings shall have an NRC of .70 to .85.

In renovations, classrooms without full height perimeter walls shall have ceilings with high CAC (Ceiling Attenuation Class) values.

### Floors

Hard surface, no-wax flooring is required.

### Countertops

Solid surface required for all wet and chemical areas.

## DOORS AND WINDOWS

Nursing Lab doors must allow the movement of hospital beds. Provide 5'-0" clear, minimum.

Doors shall be minimum STC 30 with 6" x 30" Window Lite preferred.

Provide locked entry door. Key fob access preferred.

## PATIENT ROOM

### SPACE DESCRIPTION

The Patient Room is a semi-private Lab space, adjoining the Nursing Lab, for (1) student and (1) instructor to carry out evaluations and check-offs. A patient bed with headwall and all equipment shall be provided. Provide a handwash sink with foot pedal or sensors.

### ACCESSORIES AND EQUIPMENT

Provide the following in Patient Rooms:

- Patient beds with:
  - o Headwall with utilities (Power, Oxygen/ Compressed Air, and Suction)
  - o Over the bed table
  - o Small whiteboard with marker tray
  - o Bedside table

- Privacy curtain
- Ceiling- or wall-mounted IV hooks
- Patient bed lighting
- Wall mounts for ophthalmology scopes and blood pressure cuff
- Wall-mounted glove dispenser
- Wall-mounted hand sanitizer dispenser
- Biohazard storage cabinet

## STORAGE

### SPACE DESCRIPTION

Directly adjacent to the Nursing Lab, the Storage Room provides a secure location for the storage of equipment and supplies.

Provide 5'-0" clear doorway for movement of gurney. Provide lockset door hardware.

Provide the following:

- Heavy-duty wall shelving
- Storage racks for items such as pillows, linens, IV pumps, transfer boards
- Wall cabinets and base countertops with power and data.
- A washer and dryer shall be provided or nearby, shared with other programs within close proximity to the Nursing Lab.