Columbia College Facilities Master Plan Update

Interview: Nursing Program, Modesto Junior College (MJC)

Current Resources:

- (1) full-time Faculty, (2) Adjunct, (1) Admin Asst; Hrs: 7:30am-5pm, M-Th; Fri optional; Instructors from MJC location teach at clinical sites, hospitals; Instructor to student ratio is 1:3 for clinical sites due to safety concerns, each student has (1-5) actual patients at one time; Lecture classes ratio kept to 1:10 maximum
- Program is (4) semesters long; (4) classes of (10-12) students each; (40) students total per semester; (2) classes run concurrently, alternate w/ other (2) classes; Clinical time increases as students advance, time on-campus decreases
- Students bring their own personal laptops to class; Sequoia 8 computer lab does not have the Nursing software installed
- Associate of Science degree in Nursing; Graduates able to take RN exam, often go on to Stanislaus; Students req’d to complete prerequisites, general education prior to application, typ (2) yrs; Approx (200+) Pre-Nursing majors at CC; Students willing to commute to attend Nursing Program; 70% of students work evenings, weekends
- Nursing shortage in Tuolumne County; Program has graduated (130) Nurses in last (10) yrs; Graduates staffing Hospital; Program lost its previous space, moved to CC location; Sonora Hospital funds Extern Program; MJC can’t fund due to budget cuts, MJC location cut their Extern Program; Hospital Consortium provides $824K per year, stable (3) yr contract; State of CA provides annual Health Grant; Faculty earn grants from other sources; Addt’l funding sources are soft money; Program has $500K from Measure E for new equipment incl. 2-way video conferencing, broadcasting, Sharepoint, IT; difficult to move if installed now; manpower, wiring required; Money needs to be used soon
- HPSL: Human Patient Simulation Lab; Current room layout not ideal, size is adequate; ‘learn by doing’; Equipment is not easily movable/portable; (4) ‘patient room’ bay spaces each w/ hospital bed, simulation mannequin, bedside equip, video observation equip; Simulation mannequins in HPSL paired with computers, monitors; space nearby for Instructors to observe each station out of student sight/hearing; manufacturers vary; worth $40K-$60K each
- Skills Lab: adequate size; (3) mannequins w/ hospital beds, (3) empty hospital beds for students to act as patient; sink w/ gooseneck faucet; cabinets/shelving/countertops, central tables and chairs for discussion; (4) computers for testing, (1) computer for IV simulator; lounge area w/ couches to watch training videos; refrigerator, microwave, coffee machine, dishwasher, (1) supply room accessible to students, (1) supply/IT room locked/secure
- Close proximity of offices, classrooms and labs is helpful in getting to know quality/character of each student; Instructors responsible for ensuring students are fit to be Nurses. Proximity allows Instructors to overhear conversations from students that reveal character traits not exhibited during classes/simulations
- Program regulated by MJC and other organizations: Board of Regents Nursing Standards, The Joint Commission (TJC), and the State of CA Chancellor’s Office

Needs Assessment

- New video conferencing equip needs to be purchased and installed: May require building IT upgrades, rewiring; consider connectivity, clarity, compatibility between systems; MJC issues w/ installation in New Allied Health Bldg
- Lecture Classroom: Improve lighting for video conferencing; Improve sound separation between classrooms w/ full-hht walls; Secure video equip, projectors
- HPSL: Security, protect equip; Update cabinets, flooring; Minimum of (4) ‘patient room’ bay spaces w/ hospital bed, mannequin, bedside equip, ceiling mounted curtain, camera/sound for Instructor to monitor student during simulation; need air compressor(s) and plumbing to supply air, vacuum to each bay space wall unit; Connected space for Instructors to observe each station out of student sight/hearing w/ video monitor, microphone/speakers to communicate w/ student; (5) bay spaces would be ideal; Reference MJC Glacier Hall for ideal example of HPSL and Skills Lab
- Need distilled water; Need Skills Lab similar to current one, secure, updated w/ cabinets, flooring
- Prefer to co-locate Nursing HPSL, Skills Lab, offices and classrooms to maximize efficiency, interactions between teachers and students; potential to locate classrooms to share wiring/resources for video conferencing
- Need total of (4) offices: (1) Faculty, (2) Adjunct, (1) Administrative; Potential to use empty Sequoia 6 classroom

Future Growth Opportunities:

- Extremely high application rates indicate high demand for Program; (600-700+) students apply to Program each year w/ approx 10% accepted; (63) students accepted at MJC, (10) students for CC location; Potential for expansion of Program; Potential for Geriatric Certificate, other additional certificate programs
- Video conferencing important to Nursing between MJC and CC; Sequoia 10 and Fir 2; classrooms are adequate sizes, but Sequoia 10 is awkward layout; currently have (2) lecture classrooms, amount is adequate
Campus Wide Related Issues:

- Potential to share lecture classrooms with other Programs in the afternoon
- Challenge to keep students at CC location connected to students at MJC location
- Sequoia 8 computer lab is highly underutilized

Program Design Elements (PDE):

1.1 Human Patient Simulation Lab (HPSL) secure facility with minimum of (4) ‘patient room’ bay spaces with hospital bed with ability for remote audio/video monitoring by staff.
1.2 Skills lab with (6) hospital beds with group discussion tables.
1.3 Four computers for testing and (1) computer for IV simulation.
1.4 Two lecture classrooms for (10-12) students adjacent to the labs with distance learning capabilities.
1.5 Four adjoining staff offices, one full-time, two adjunct, one administrative assistant.

Modesto Allied Health Nursing Program:

- Lecture classroom: Keller Group provided furniture with flat screens and keyboard, mouse that lower into the desk. The power/data is floor box connected.
- Skills Lab:
  - (24) beds with approximately (12) mannequins and lockable storage cabinets provided adjacent to the beds. Between each bed is a shared sink.
  - Check-in counter area with computer for logging in.
  - Large Storage with double-side access full-height cabinets.
  - Use of computers on wheels for student nurse charting.
  - Provide storage cabinets for secure storage of syringes used throughout semester for each student.
  - Skills Lab technician station with direct access to Skills Lab
- HPSL:
  - State of the art facility
  - Instructors conducting simulations sit at a desk behind a screen with two-way audio and video to patient simulation room with students. Instructors control the mannequin conditions from a computer. Sessions are recorded for de-briefing. When finished with facility installations, desks will be set up with four monitors each.
  - Technology: simulations are recorded on three cameras per simulation room - one camera above mounted on the ceiling, and one camera on opposite diagonal ends of the room. Med carts are tracked and the vital systems monitor is recorded. Currently, there are no software packages that can be purchased that can meet the facility’s needs. IT sets up and programs the hardware and software to facilitate and record simulations. Important to have the IT be logged into a remote screen to troubleshoot equipment.
  - Moulage: one storage room for prepared kits and one supply room to prepare moulage and accessories based on Instructor simulation scenario.
  - Students average four hours in the HPSL lab per session with approximately one to four hours of set up time needed by the Instructor per session, depending on scenario and available accessory kits.