This update presents information for the 122 pre-licensure registered nursing (RN) programs in Texas during the 2018 reporting year, including:

- 1 diploma program;
- 68 Associate Degree in Nursing (ADN) programs, including 57 generic ADN programs and 11 licensed vocational nurse (LVN) to ADN stand-alone programs;
- 52 Bachelor of Science in Nursing (BSN) programs; and
- 1 Master of Science in Nursing Alternate Entry (MSN AE) program.

The Texas Center for Nursing Workforce Studies (TCNWS) collected data using the 2018 Board of Nursing’s (BON) Nursing Education Program Information Survey (NEPIS) that was available online as of October 1, 2018. The reporting period was academic year (AY) 2017-2018 (September 1, 2017 – August 31, 2018) unless otherwise noted. TCNWS collaborated with the BON in the design and dissemination of the survey.

Geographic Location of Professional Nursing Programs

Figure 1 presents the locations of the 122 professional nursing programs in Texas by metropolitan and non-metropolitan counties. Table 1 summarizes the location of programs by type and geographic designation.

Table 1. Geographic Designation of Main Campuses

<table>
<thead>
<tr>
<th>Program Type</th>
<th>Geographic Designation</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metro Border</td>
<td>Metro Non-Border</td>
</tr>
<tr>
<td>Diploma</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>ADN</td>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>LVN to ADN</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>BSN</td>
<td>4</td>
<td>44</td>
</tr>
<tr>
<td>MSN AE</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>9</td>
<td>94</td>
</tr>
</tbody>
</table>

- 94 programs (77.0%) were located in metropolitan, non-border counties.
- 18 programs (14.8%) were located in non-metropolitan, non-border counties.
- 9 programs (7.4%) were located in metropolitan, border counties.
- Only 1 program (0.8%) was located in a non-metropolitan, border county.
Table 2 displays the changes over time in the number of professional nursing programs.

- During AY 2017-2018, 3 new programs opened and 0 programs closed.

Table 2. Changes in the Number of Professional Nursing Programs, 2009-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>New Programs</th>
<th>Closed Programs</th>
<th>Total Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>2</td>
<td>1</td>
<td>93</td>
</tr>
<tr>
<td>2010</td>
<td>5</td>
<td>2</td>
<td>96</td>
</tr>
<tr>
<td>2011</td>
<td>9</td>
<td>0</td>
<td>105</td>
</tr>
<tr>
<td>2012</td>
<td>2</td>
<td>1</td>
<td>106</td>
</tr>
<tr>
<td>2013</td>
<td>9</td>
<td>2</td>
<td>113</td>
</tr>
<tr>
<td>2014</td>
<td>3</td>
<td>2</td>
<td>114</td>
</tr>
<tr>
<td>2015</td>
<td>6</td>
<td>1</td>
<td>119</td>
</tr>
<tr>
<td>2016</td>
<td>3</td>
<td>6</td>
<td>116</td>
</tr>
<tr>
<td>2017</td>
<td>6</td>
<td>3</td>
<td>119</td>
</tr>
<tr>
<td>2018</td>
<td>3</td>
<td>0</td>
<td>122</td>
</tr>
</tbody>
</table>

Table 3 shows the number of professional nursing programs, by program type, over the past 10 years.

- The number of diploma and MSN AE programs has remained relatively steady from 2009 to 2018.

The number of LVN to ADN stand-alone programs has remained relatively steady since 2008. The number stayed the same from 2017 to 2018.

The number of ADN programs increased from 2008 to 2011 and has remained relatively steady since.

The number of BSN programs has increased by 79.3% from 2009 to 2018. From 2017 to 2018, 3 BSN programs opened.

Table 3. Number of Professional Nursing Programs by Program Type, 2009-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Diploma</th>
<th>LVN to ADN</th>
<th>ADN</th>
<th>BSN</th>
<th>MSN AE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>2</td>
<td>9</td>
<td>52</td>
<td>29</td>
<td>1</td>
</tr>
<tr>
<td>2010</td>
<td>1</td>
<td>8</td>
<td>54</td>
<td>32</td>
<td>1</td>
</tr>
<tr>
<td>2011</td>
<td>1</td>
<td>8</td>
<td>58</td>
<td>37</td>
<td>1</td>
</tr>
<tr>
<td>2012</td>
<td>1</td>
<td>9</td>
<td>57</td>
<td>38</td>
<td>1</td>
</tr>
<tr>
<td>2013</td>
<td>1</td>
<td>10</td>
<td>58</td>
<td>43</td>
<td>1</td>
</tr>
<tr>
<td>2014</td>
<td>1</td>
<td>10</td>
<td>58</td>
<td>44</td>
<td>1</td>
</tr>
<tr>
<td>2015</td>
<td>1</td>
<td>9</td>
<td>60</td>
<td>48</td>
<td>1</td>
</tr>
<tr>
<td>2016</td>
<td>1</td>
<td>8</td>
<td>59</td>
<td>47</td>
<td>1</td>
</tr>
<tr>
<td>2017</td>
<td>1</td>
<td>11</td>
<td>57</td>
<td>49</td>
<td>1</td>
</tr>
<tr>
<td>2018</td>
<td>1</td>
<td>11</td>
<td>57</td>
<td>52</td>
<td>1</td>
</tr>
</tbody>
</table>

Of the 122 professional nursing programs operating in Texas during AY 2017-2018, 88 programs (72.1%) were governed by public institutions.

- 82 operated within public colleges and universities.
- 6 operated within health science centers.

The other 34 programs (27.9%) were governed by private institutions.

- 19 were governed by private, non-profit institutions.
- 17 operated within private colleges and universities.
- 1 operated within a career school/college.
- 1 operated within a hospital.

15 were governed by private, for-profit institutions.

- 11 operated within private colleges and universities.
- 4 operated within career schools/colleges.

These were mutually exclusive categories.
In the 2018 NEPIS, programs were asked to report the length of their nursing curriculum in months, not including nursing prerequisites.

- The diploma program was 20 months in length and the MSN AE program was 12 months.
- ADN programs ranged from 15 to 28 months in length. The mean and median lengths for ADN programs were 21.4 and 22 months, respectively.
- LVN to ADN programs ranged from 12 to 20 months in length. The mean and median lengths for LVN to ADN programs were 14.5 and 12 months, respectively.
- BSN programs ranged from 12 to 36 months in length. The mean and median lengths for BSN programs were both 23.3 months.

Figure 2 shows the number of programs that reported each nursing curriculum length.

- 18 ADN programs and 16 BSN programs reported a nursing curriculum length of 24 months.

Program tracks are alternate pathways for students to meet the nursing program’s objectives or outcomes. 98 of the 122 RN programs (80.3%) offered tracks in addition to their basic program.

- 61 programs (50.0%), including the 11 stand-alone LVN to ADN programs, offered an LVN to ADN track.
- 40 programs (32.8%) offered an RN to BSN track, including 28 programs that offered the entire didactic portion online.
- 17 programs (13.9%) offered a paramedic/EMT to ADN track.
- 7 programs (5.7%) offered a bachelor's degree to BSN track.
- 10 programs (8.2%) offered an accelerated/compressed curriculum.

Programs were asked about tracks that give active duty, former, or retired military personnel nursing credit for allied health care training or experience.

- 8 programs currently offered such a track, while 7 are planning to implement one.

These 8 programs included 4 BSN programs, 3 ADN programs, and 1 LVN to ADN program.

The 8 programs reported having a total of 157 students enrolled in these tracks.

Programs cited challenges to implementing military tracks, such as the difficulty of evaluating military transcripts (6 programs), insufficient funding (1 program), and lack of faculty (1 program).

Programs were also asked about options for high school students.

- 2 programs reported offering options for high school students. Both were ADN programs.
- The 2 programs reported having a total of 46 students enrolled in these tracks.

1 program admits students in their freshman year and provides a pathway for students to matriculate into the nursing program. The other program specified that it admits seniors in high school using the same standards they would to admit other students.
Table 4. Number of Programs that Grant Different Types of Students Advanced Placement by Program Type

<table>
<thead>
<tr>
<th>Program Type</th>
<th>Students with prior VN or RN nursing education</th>
<th>Paramedic/EMT</th>
<th>Allied health</th>
<th>LVN</th>
<th>Baccalaureate/master’s in discipline other than nursing</th>
<th>Military healthcare personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ADN</td>
<td>28</td>
<td>15</td>
<td>2</td>
<td>48</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>LVN to ADN</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>BSN</td>
<td>21</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>MSN AE</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>51</td>
<td>15</td>
<td>2</td>
<td>63</td>
<td>3</td>
<td>10</td>
</tr>
</tbody>
</table>

Table 5. Number of Programs Using Different Mechanisms to Grant Advanced Placement by Program Type

<table>
<thead>
<tr>
<th>Program Type</th>
<th>Direct transfer of credit</th>
<th>Grant credit with transition course</th>
<th>Grant credit with completion of designated courses</th>
<th>Grant credit with passing written exam(s)</th>
<th>Tech prep courses²</th>
<th>College credit for active duty, former, and retired military personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ADN</td>
<td>36</td>
<td>39</td>
<td>14</td>
<td>6</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>LVN to ADN</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>BSN</td>
<td>25</td>
<td>8</td>
<td>6</td>
<td>14</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>MSN AE</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>66</td>
<td>49</td>
<td>21</td>
<td>21</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>
Online Availability of Professional Nursing Programs

Programs were asked whether they offered nursing courses via online technology. Of the 119 professional nursing programs:

- 3 programs (2.5%) offered the entire didactic program curriculum online. Of these, 1 was a LVN to ADN program and 2 were BSN programs.
- 53 programs (43.4%) offered select courses online. Of these, 20 were ADN, 2 were LVN to ADN, and 31 were BSN programs.
- 71 programs (58.2%) offered blended/hybrid courses (courses partially online and partially face-to-face). Of these, 1 was a diploma program, 31 were ADN, 2 were LVN to ADN, and 37 were BSN programs.

Online Availability of Professional Nursing Programs

Since 2010, the percent of programs that offered the entire didactic curriculum online or offered web-enhanced sections of courses online has remained relatively steady. The percent of programs offering select courses online has decreased (down from 61.5% in 2010).

Program Hours in Professional Nursing Programs

In the 2018 NEPIS, programs were asked to provide information regarding the number of contact hours required in each of the following areas in their program of study: didactic, computer lab, skills lab, simulation lab, and patient care clinical situations. Figure 3 graphs the median value for each of the program activities for ADN, LVN to ADN, and BSN programs. Please note that there was only one diploma program and one MSN AE program so the median value was equal to the actual value reported by each program. For that reason, they are not graphed in Figure 3.

As evidenced by Figure 3, there was variation in the hours required by professional nursing programs both between and within program types. Some reasons for the variation may include: inherent differences between the program types (e.g., LVN to ADN programs are generally more abbreviated programs of study than ADN or BSN programs), differences between the operational definitions used in the NEPIS and how programs define these activities, or variations in the accuracy of self-reporting these hours by professional nursing programs.

Didactic Contact Hours

In this report, didactic includes actual hours of classroom instruction in nursing and non-nursing Board-required courses/content. The didactic hours reported by professional nursing programs ranged from 19 to 2,730 hours.

Programs were asked what type of curriculum they used. 62 (50.8%) reported using a block curriculum, 30 (24.6%) used an integrated curriculum, and 27 (22.2%) used a concept-based curriculum. 3 programs (2.5%) reported using some combination of curriculum types.

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3Advanced placement is defined as a mechanism by which students with relevant prior education and/or experience may be offered course credit by meeting certain other requirements.

3Tech prep courses are courses taken as part of a tech prep program. Section 2, Chapter 61, Subchapter T of the Texas Education Code defines tech prep programs as programs of study that combine secondary and post-secondary study through the integration of academic instruction with vocational and technical instruction. For more information on tech prep programs, please see the above stated section of the Texas Education Code.
Computer Lab

Computer lab is defined as interactive tutorials and learning modules that are part of a curriculum that is separate from didactic. 96 programs (78.7%) reported computer lab hours for their program of study. The computer lab hours reported ranged from 5 to 438 hours. The median number of computer lab hours reported by all programs has not changed substantially since 2011, but the percent of programs offering computer lab hours has increased from 66.7% to 78.7%.

Nursing Skills Lab (low- and moderate-fidelity simulations and task training)

In this report, nursing skills lab is defined as low- and medium-fidelity simulations and task training. All but one program reported skills lab hours as part of their nursing curriculum. The skills labs hours reported by professional nursing programs ranged from 6 to 544 hours. The median number of nursing skills lab hours reported by all programs has decreased from 144 in 2011 to 128 in 2018.

High-Fidelity Simulation Lab

Simulation lab refers to high-fidelity situations which are defined as structured learning experiences with computerized mannequins that are anatomically precise and reproduce physiologic responses. The environment mimics the clinical setting. All but 2 programs (98.4%) reported simulation lab hours for their programs of study. This percentage has been increasing since 2010, when 81.3% of programs required simulation lab hours. The simulation lab hours reported ranged from 10 to 438 hours. The median number of simulation lab hours reported by all programs has increased from 48 in 2011 to 87.5 in 2018, and the percent of programs offering simulation lab hours has increased from 82.9% to 98.4%.

57 programs (46.7%) reported that they had plans to increase the number of simulation lab hours over the next academic year. 40 programs (32.8%) reported that they weight simulation lab hours differently from hands-on clinical practice hours.

Programs were asked to provide their faculty-to-student ratios in simulation activities.

- The ratio varied from 1:2 in 2 programs to 1:20 in 2 programs.
- The most commonly reported ratio was 1:10 (57 programs).

Patient Care Clinical Situations

In this report, patient care clinical situations were defined as hands-on clinical practice with actual patients in a clinical setting including all faculty-supervised activities in the clinical setting, such as direct care, observational experiences, and clinical conferences. The patient care clinical situations hours reported ranged from 192 to 1,440 hours. The median number of patient care clinical situations hours reported by all programs has decreased from 712 in 2011 to 590 in 2018. Between 2017 and 2018, 34 programs (28.6%) decreased their patient care clinical situations hours. Of those 34, 26 programs (76.5%) increased simulation lab hours at the same time.

Total Clinical Contact Hours

Figure 4 displays the median total clinical contact hours reported by program type. Total clinical contact hours includes patient care clinical situations, nursing skills lab, simulation lab, and computer lab hours.

- Diploma and MSN AE represent 1 program each, so they were not included in Figure 4. The diploma program reported total clinical contact hours of 1,368 and the MSN AE program reported 946 total clinical contact hours.
- BSN programs reported the highest median clinical contact hours (968). The mean clinical contact hours for BSN programs was 950.1. BSN program clinical contact hours ranged from 726 to 1,256.
- ADN programs reported a median of 896 and a mean of 902.9 total clinical contact hours. ADN programs reported a range of total clinical contact hours from 416 to 1,584.
- LVN to ADN programs had a median of 768 and a mean of 709.5 clinical contact hours. Hours varied among LVN to ADN programs from 480 to 960.
11 programs (9.0%) reported that they used Dedicated Education Units (DEUs) as a clinical format.  

Table 6 displays the percentage of hands-on clinical practice time programs reported students spent in a variety of settings.

**Table 6. Percentage of Hands-On Clinical Time Spent by Setting**

<table>
<thead>
<tr>
<th>Clinical Setting</th>
<th>Mean % of Time Spent</th>
<th>Median % of Time Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Care</td>
<td>75.9%</td>
<td>80.0%</td>
</tr>
<tr>
<td>Long Term Care</td>
<td>8.2%</td>
<td>5.0%</td>
</tr>
<tr>
<td>Community Settings</td>
<td>11.8%</td>
<td>10.0%</td>
</tr>
<tr>
<td>Other</td>
<td>4.1%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

The majority of hands-on clinical practice hours were spent in the acute care setting, with programs reporting an average of 75.9% of clinical practice hours spent in the acute care setting.

The next most used setting was the community setting, with an average of 11.8% of clinical practice hours.

“Other” settings included psych/mental health (8 programs) and long term acute care (4 programs).

The percentage of time spent in these settings has not changed significantly since 2014, when these categories were first introduced.

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Based on the recommendation of the Institute of Medicine’s Future of Nursing report, the 2017 NEPIS included a question on the amount of interprofessional collaboration pre-licensure RN students experience.

Programs were asked to report the number of required nursing courses that offered clinical or simulation experiences for both entry-level RN students and one or more types of other graduate-level health professional students, such as physicians, physician assistants, or pharmacists.

67 programs reported zero required nursing courses that offered interprofessional collaboration experiences.

55 programs reported requiring anywhere from one course (7 programs) to 17 courses (1 program).

These included 24 BSN programs, 26 ADN, 4 LVN to ADN, and 1 MSN AE.

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