

**PRE-LICENSURE NURSING EDUCATION PROGRAMS****SUMMARY OF ANNUAL REPORTS
July 1, 2011 through June 30, 2012****BACKGROUND**Submission of Annual Reports

Rule 4723-5-05(A) of the Ohio Administrative Code (OAC) requires each pre-licensure nursing education program with Full or Provisional approval during a reporting period to submit an Annual Report to the Ohio Board of Nursing (Board). The reporting period for this Annual Report summary is July 1, 2011 through June 30, 2012. For this time period, 77 registered nursing education programs, and 68 practical nursing education programs held Full or Provisional approval status.

Data Requested

Programs were asked to provide data related to their capacity to educate Ohio's nursing workforce. This includes questions about program enrollment capacity, intent to expand enrollment capacity, actual expansion, number of available nursing education program "seats," and projecting the need for future faculty. Programs were also asked to report the number of clock hours spent by students in supervised clinical practice.

New for this reporting period, programs were asked to provide student dismissal information, number of graduates employed in the nursing field, ratio of faculty/teaching assistants to students in the clinical setting, capstone requirements, and the presence of articulation agreements with other degree granting institutions. Also new for this reporting period, programs provided their accreditation status with the National League for Nursing Accrediting Commission (NLNAC) and the Commission on Collegiate Nursing Education (CCNE).

SIGNIFICANT FINDINGS

Registered Nursing (RN) Education Programs

- Programs filled the available seats to 93.05% capacity, as compared to being filled to 81.77% capacity in 2010-2011, and 85.38% in year 2009-2010.
 - ❖ Diploma programs – 92.76%
 - ❖ Associate degree programs – 92.60%
 - ❖ Baccalaureate – 94.03%
 - ❖ Direct entry graduate programs – 89.11%
- Although 19 programs expanded by adding an additional 767 seats, as compared to 19 programs expanding for an additional 659 seats in 2010-2011, overall there were 12,834 available seats, less than the 16,904 available seats reported in 2010-2012.
- The combined RN programs reported 4,863 denials of admission to qualified students due to lack of available program seats.
 - ❖ Of the 4,863 denials of qualified applicants due to seat limitations, associate degree programs reported 2,887 of the denials
- RN programs project that 272 faculty members and 183 teaching assistants will leave their positions in the next five years.
- RN program clinical clock hours ranged from 315 to 1,604 hours, representing a difference of 1,289 hours. The range remains the same from the previous reporting period.
- The total number of RN graduates was 8,113, an increase of 60 from the last reporting period.
- Twenty-nine of the 41 associate degree programs and two of the three diploma programs reported having articulation agreements with another degree granting institution enabling graduates to progress to a baccalaureate or higher degree.
- Sixty-five RN programs reported they are accredited by either NLNAC or CCNE. Of the 65 accredited programs, three baccalaureate programs are accredited by both NLNAC and CCNE.
- Forty-two programs reported that they require drug screens for students during a student's enrollment in the program.
 - ❖ Associate Degree – 23
 - ❖ Baccalaureate Degree – 16
 - ❖ Diploma – 2
 - ❖ Direct Entry Graduate – 1

Practical Nursing (PN) Education Programs

- PN programs reported they were filled to 78.58% capacity, as compared to 84.62% capacity in the last reporting period, and 92.92% in 2009-2010.
- Fourteen PN programs expanded, collectively adding 693 seats, compared to 10 PN programs expanding by 231 seats in the previous reporting period.
- PN programs projected that 125 faculty members and 44 teaching assistants will leave their positions in the next five years.
- PN program clinical clock hours ranged from 182 to 609, a difference of 427 hours. For the previous reporting period the range of PN program clinical clock hours was 182 to 639, a difference of 457 hours.
- The total number of PN graduates was 4,319, a decrease of 233 from the last reporting period.
- Thirty adult PN programs and three high school PN programs reported having articulation agreements with associate degree granting institutions.
- Ten adult PN programs reported having articulation agreements with baccalaureate degree granting institutions.
- Four PN programs reported they are NLNAC accredited, and 17 reported NLNAC accreditation is being considered.
- Forty-two PN programs reported that they require drug screens for students during a student's enrollment in the program.

Reporting Programs, Enrollment, and Graduates

Nursing Education Programs	Reported Enrollment	Reported Graduates
Direct Entry Graduate Degree	Direct Entry Graduate Degree	Direct Entry Graduate Degree
2007-2008: 3	2007-2008: 132	2007-2008: 88
2008-2009: 3	2008-2009: 163	2008-2009: 82
2009-2010: 3	2009-2010: 171	2009-2010: 72
2010-2011: 3	2010-2011: 191	2010-2011: 86
2011-2012: 3	2011-2012: 197*	2011-2012: 98
Baccalaureate	Baccalaureate	Baccalaureate
2007-2008: 24	2007-2008: 8,377	2007-2008: 2,376
2008-2009: 24	2008-2009: 9,570	2008-2009: 2,543
2009-2010: 25	2009-2010: 7,891	2009-2010: 2,568
2010-2011: 26	2010-2011: 9,244	2010-2011: 2,850
2011-2012: 30	2011-2012: 9,974*	2011-2012: 3,132
Diploma	Diploma	Diploma
2007-2008: 4	2007-2008: 728	2007-2008: 217
2008-2009: 4	2008-2009: 769	2008-2009: 264
2009-2010: 4	2009-2010: 799	2009-2010: 255
2010-2011: 4	2010-2011: 680	2010-2011: 267
2011-2012: 3	2011-2012: 257*	2011-2012: 97
Associate Degree	Associate Degree	Associate Degree
2007-2008: 36	2007-2008: 9,811	2007-2008: 4,063
2008-2009: 37	2008-2009: 10,083	2008-2009: 4,303
2009-2010: 39	2009-2010: 11,461	2009-2010: 4,781
2010-2011: 39	2010-2011: 11,770	2010-2011: 4,850
2011-2012: 41	2011-2012: 14,017*	2011-2012: 4,786
Practical – High School	Practical – High School	Practical – High School
2007-2008: 4	2007-2008: 115	2007-2008: 55
2008-2009: 5	2008-2009: 134	2008-2009: 51
2009-2010: 5	2009-2010: 133	2009-2010: 62
2010-2011: 4	2010-2011: 106	2010-2011: 52
2011-2012: 4	2011-2012: 88*	2011-2012: 38
Practical – Adult	Practical – Adult	Practical – Adult
2007-2008: 55	2007-2008: 6,899	2007-2008: 4,179
2008-2009: 55	2008-2009: 7,752	2008-2009: 4,690
2009-2010: 54	2009-2010: 7,712	2009-2010: 5,579
2010-2011: 56	2010-2011: 7,093	2010-2011: 4,500
2011-2012: 64	2011-2012: 7,806*	2011-2012: 4,281

* Reporting "Peak" enrollment rather than previous years' "Fall" enrollment.

Registered Nursing (RN) Programs

A total of 77 RN education programs submitted Annual Reports
Baccalaureate Degree (30); Associate Degree (41); Diploma (3); Direct Entry Graduate (3)

Program Advanced Standing and Completions

RN programs were asked to report if they granted advanced standing to licensed practical nurses. If the program awarded advanced standing they were asked to report the number of the licensed practical nurses that graduated from the RN program.

Program Type and Number Offering Advanced Standing	Number of LPNs With Advanced Standing	Number of LPNs Graduating
Associate (36)	1,808	1,107 (61.22%)
Baccalaureate (9)	56	21 (37.5%)
Direct Entry Graduate (0)	0	0
Diploma (3)	54	42 (77.8%)
Totals	1,918	1,170 (61%)

Seat Availability and Admission Denials

RN programs reported a total of 12,834 available seats in the reporting period, a decrease of 4,070 from 16,904 seats that were available in the previous reporting period.

Of the 12,834 available seats, 11,942 were filled. This is a decrease of 1,882 from the 13,824 seats reported filled during the previous reporting period.

RN programs collectively reported that 4,863 students who met the program admission criteria were denied admission because of a lack of seats. In addition, they collectively denied admission to 6,122 applicants who did not meet the admission criteria.

Program Type	Number of Seats Available	Number of Seats Filled
Diploma	152	141 (92.76%)
Associate Degree	8,190	7,584 (92.60%)
Baccalaureate	4,345	4,086 (94.03%)
Direct Entry Graduate	147	131 (89.11%)
Totals	12,834	11,942 (93.05%)

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Associate degree and Baccalaureate degree programs reported the highest numbers of academically qualified applicants who were denied program admission because there were not enough seats to accommodate them.

Associate Degree Programs With 300 or More Qualified Applicants Denied Admission

Program Name	Program Location	Number of Qualified Applicants Denied Admission
Sinclair Community College	Dayton	325
Central Ohio Technical College	Newark	358
Lorain County Community College	Elyria	450

Baccalaureate Programs With 200 or More Qualified Applicants Denied Admission

Program Name	Program Location	Number of Qualified Applicants Denied Admission
University of Toledo	Toledo	235
University of Toledo Bowling Green	Toledo	235
Wright State University-Miami Valley	Dayton	237
The Ohio State University	Columbus	295
Kent State University	Kent	327

RN programs reported the number of applications received, students newly admitted to the program, and students readmitted into the program.

Program Type	Applications Received	Newly Admitted Students	Readmitted Students
Diploma	382	135	12
Associate Degree	14,649	7,846	1,759
Baccalaureate	10,841	4,095	259
Graduate Direct Entry	281	95	36

Student Dismissals

- ❖ Twenty-four associate degree programs reported dismissing 353 students, of which 40 students were dismissed for issues not related to academic and/or clinical performance.
- ❖ Fourteen baccalaureate programs reported dismissing 119 students, of which six students were dismissed for issues not related to academic and/or clinical performance.
- ❖ Three diploma programs reported dismissing 10 students, of which two students were dismissed for issues not related to academic and/or clinical performance.

Drug Screening

- ❖ Twenty-three associate degree programs reported requiring a drug screen of students at any point during a student's program enrollment. Six of the 23

programs reported dismissing a total of seven students due to a positive drug screen.

- ❖ Sixteen baccalaureate programs reported requiring student drug screens, and one student was dismissed due to a positive drug screen.
- ❖ Two diploma programs and one direct entry graduate program reported requiring student drug screens, and none reported the dismissal of students for a positive drug screen.

Program Expansion

Nineteen RN programs reported program capacity expansion resulting in 767 additional seats.

➤ Associate Degree	➤ 571
➤ Diploma	➤ 14
➤ BSN	➤ 182
➤ Direct Entry Graduate	➤ 0

Four programs reported that they are considering expansion to another location and projected the expansion would result in a collective increase of 252 seats.

Teaching Assistants

Programs were asked to report their use of teaching assistants. Of the 77 responding RN programs, 68 use teaching assistants for a combined total of 1,185 teaching assistants.

Faculty Shortage Projections

Programs reported the number of faculty and teaching assistants who vacated their positions during the reporting period, and projected the number of faculty and teaching assistants that anticipate leaving their positions within the next five years for any reason.

- ❖ 200 faculty left during the reporting period
 - ⇒ 272 faculty anticipate leaving in the next 5 years
- ❖ 167 teaching assistants left during the reporting period
 - ⇒ 183 teaching assistants anticipate leaving in the next 5 years

In addition, programs were asked about the number of faculty and teaching assistants who vacated their positions due to issues related to compensation. Of the 367 faculty and teaching assistants who left their positions during this reporting period, 86 left their positions due to compensation issues.

Clinical Clock Hours

The administrative rules establish parameters and outcomes for clinical experiences but the rules do not require programs to specify a certain number of clinical clock hours. The rules require a curriculum to include clinical and laboratory experiences that meet the established course objectives or outcomes; provide a nursing student with the

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opportunity to practice cognitive, psychomotor, and affective skills in the performance of a variety of nursing functions with individuals or groups across the life span; provide a nursing student with the opportunity to practice technical skills including skills pertaining to intravenous therapy; and be provided concurrently with the related theory instruction.

- **Diploma programs:** Diploma programs reported that the average number of clinical clock hours was 744. Clinical hours ranged from 400 hours (Tri-Rivers School of Nursing Diploma Program) to 1,076 hours (Trinity Health System School of Nursing) with a median of 756 hours.
- **Associate Degree programs:** Associate Degree programs reported that the average number of clinical clock hours was 554.20. Clinical hours ranged from 315 hours (Fortis College in Centerville and Fortis College in Cincinnati) to 840 hours (North Central State College) with a median of 568 hours.
- **Baccalaureate Degree programs:** Baccalaureate Degree programs reported that the average number of reported clinical clock hours was 772.8. Clinical hours ranged from 461 hours (University of Toledo and University of Toledo Bowling Green) to 1,604 hours (Case Western Reserve University, Frances Payne Bolton School of Nursing) with a median of 778 hours.
- **Direct Entry Graduate Degree programs:** These programs reported that the average number of clinical clock hours was 836. Clinical hours ranged from 690 (The University of Toledo) to 1,008 hours (Case Western Reserve University, Frances Payne Bolton School of Nursing, Masters of Nursing (MN) Leading to the MSN and DNP) with a median of 812 hours.

Program Type	Clinical Hours	Pediatric Clinical Hours	Obstetric Clinical Hours
	Low/High/Average/ Median	Low/High/Average/ Median	Low/High/Average/ Median
Diploma	400/1076/744/756	24/108/62.6/56	24/108/67.3/70
Associate Degree	315/840/554.20/568	6/88/41.5/45	4/108/45.5/45
Baccalaureate	461/1604/772.8/778	27/120/74.6/75	27/112/73.5/75
Direct Entry Graduate	690/1008/836/812	40/157/85.7/60	40/157/85.7/60

Simulation

Seventy RN programs reported providing laboratory hours for skills practice using high or moderate fidelity human patient simulators (computerized).

Program Type	Laboratory Hours Devoted to Simulation Low/High/Average/Median
Diploma	22/150/86/86
Associate Degree	1/782/54.2/25
Baccalaureate	8/624/61.2/36.5
Direct Entry Graduate	11/30/19/16

Clinical Supervision: Faculty, Teaching Assistants and Preceptors

- ❖ Education: RN programs were asked to report the educational level of faculty, teaching assistants, and preceptors providing clinical supervision to students. Of the 77 programs reporting, 75 programs reported using a combination of graduate, baccalaureate, and preceptor qualified nurses to supervise students during clinical experiences.
- ❖ Ratios: Seventy-six of the 77 RN programs responded with the following ratio of faculty or teaching assistant to students during the clinical experience. The remaining program reported incomplete data.

Ratio of faculty or teaching assistant to students	Number of programs responding
1:6	3
1:7	12
1:8	44
1:9	8
1:10	9

- ❖ Preceptors: RN programs reported if preceptors were used to supervise students in their clinical experience. Out of the 77 programs reporting, 69 use preceptors to supervise students.
 - 3 Diploma programs
 - 34 Associate Degree programs
 - 29 Baccalaureate Degree programs
 - 3 Direct Entry Graduate programs reported

Capstone or Practicum Clinical Experience Within the Curriculum

Programs were asked if the curriculum concluded with a capstone or practicum course in which the related clinical experience is supervised by a preceptor for the purposes of transitioning the student into practice. Sixty RN programs reported they conclude with a capstone or practicum clinical experience, providing a range of 40 to 300 clock hours of associated clinical experience.

Capstone Examination

RN programs were asked to report their use of a capstone examination. Seventy-four RN programs reported using a capstone examination in the following manner:

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- ❖ Used a capstone examination that contributed to the course grade – 24
- ❖ Required a passing score on the capstone examination to pass the capstone course – 14
- ❖ Required a passing score on the capstone examination (independent of a course) for successful program completion – 10
- ❖ Used the capstone examination results to provide feedback but it had no impact on the student's grade or successful completion of the program – 21
- ❖ Did none of the above – 5

RN programs were asked to report the number of students that did not successfully complete the program due to their failure of the required capstone examination as a course or program requirement.

- ❖ Ten associate degree programs reported a collective 80 students did not successfully complete the program due to their capstone exam failure.
- ❖ Three baccalaureate programs reported 43 students did not successfully complete the program because of their capstone exam failure.
- ❖ Two diploma programs and one direct entry graduate program require a passing score on the capstone examination for either course or program completion; they did not report student program failures resulting from an inability to pass the capstone exam.

Accreditation

Sixty-five RN programs reported they were accredited by either NLNAC or CCNE. Of the 65 accredited programs, three baccalaureate programs are accredited by both NLNAC and CCNE.

Articulation Agreements

Twenty-nine of the 41 associate degree programs and two of the three diploma programs reported having articulation agreements with another degree granting institution enabling graduates to progress to a baccalaureate or higher degree.

Nursing Employment of 2010-2011 Graduates

All education programs reported the number of its previous year's graduates employed in a nursing position during the current reporting period. Not all graduates reported their employment to the education program, therefore this data is based on only those graduates who did report.

Program Type	Number of 2010-2011 Graduates	Nursing 2010-2011 Graduates in Nursing Employment in 2011-2012
Diploma	267	67
Associate	4,850	3,355
Baccalaureate	2,850	1,569
Direct Entry Graduate	86	78
Total	8,053	5,069

Practical Nursing (PN) Programs

A total of 68 PN education programs submitted Annual Reports

Program Credit and Completions

PN programs were asked to report if they grant credit to State Tested Nurse Aides (STNAs) or Emergency Medical Technicians (EMTs), and the number of the STNAs and EMTs that entered and completed the program.

Program Type	Number of STNAs and EMTs Awarded Credit	Number STNAs and EMTs that Completed Program
Practical Nurse	52	52 (100%)

Seat Availability and Admission Denials

- ❖ PN programs reported 9,327 available seats, an increase of 704 from 8,623 in the previous reporting period.
- ❖ PN programs reported 7,329 available seats were filled, representing 78.58% capacity.
- ❖ PN programs reported 825 qualified individuals were denied admission due to a lack of available seats.
- ❖ Programs reported denying admission to 2,356 individuals who did not meet the admission criteria.
- ❖ Hocking Technical College Nursing Technology Career Ladder Program, Nelsonville, reported the highest number (178) of denials to qualified applicants due to a lack of seats.
- ❖ Practical Nurse programs reported the number of applications received, and the number of students newly admitted and readmitted to the program. The programs collectively reported 12,466 applications were received, 7,224 students were newly admitted and 939 students were readmitted.

Student Dismissals

Thirty-nine PN programs reported dismissing 513 students, of which 73 students were dismissed for issues not related to academic and/or clinical performance.

Drug Screening

Forty-two PN programs reported requiring a drug screen at any point during a student's program enrollment. Twelve students were reported dismissed due to a positive drug screen.

Program Expansion

Fourteen PN programs reported program expansions, an increase from 10 programs that reported expansion in the previous reporting period. An additional 5 PN programs reported the intention to expand by a total of 252 additional seats.

Program Utilization of Teaching Assistants

Of the 68 programs responding, 58 programs reported using a total of 317 teaching assistants.

Faculty Shortage Projections

Programs were asked for the number of faculty and teaching assistants that vacated their positions and to project the number anticipated to leave within the next 5 years for any reason.

- ❖ 145 faculty left during the reporting period
 - ⇒ 125 faculty anticipate leaving in the next 5 years
- ❖ 59 teaching assistants left during the reporting period
 - ⇒ 44 teaching assistants anticipate leaving in the next 5 years

Of the 204 faculty and teaching assistants who left this reporting period, 53 left due to salary or other compensation issues.

Clinical Clock Hours

Of the 68 programs reporting the number of clock hours spent by its students in clinical experiences, the hours ranged from 182 hours (Willoughby Eastlake Practical Nursing-Adult and High School Divisions) to 609 hours (Choffin School of Practical Nursing). The average number of clinical clock hours was 393.21, a decrease from the average of 399.5 reported in the previous reporting period. In addition, clinical clock hours for obstetrics and pediatrics are included in the table below.

Clinical Hours Low/High/Average/ Median	Pediatric Clinical Hours Low/High/Average/ Median	Obstetric Clinical Hours Low/High/Average/ Median
182/609/393.2/378.5	3/68/20/16	3/108/22/16

Simulation

Thirty-two programs reported providing laboratory hours for skills practice using high or moderate fidelity human patient simulators (computerized). The range of laboratory clock hours for this type of simulation are a low of one hour, a high of 92 hours, with an average of 23 hours, and a median of 12.5 hours.

Clinical Supervision: Faculty, Teaching Assistants and Preceptors

- ❖ Education: Programs were asked to report the educational level of faculty, teaching assistants, and preceptors providing clinical supervision to students. Of the 68 PN programs reporting, 56 programs used a combination of

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baccalaureate, associate, and diploma prepared nurses to supervise students during clinical experiences.

- ❖ Preceptors: Programs responded with information regarding the use of preceptors. Of the 68 PN programs reporting, 44 use preceptors.
- ❖ Ratios: The 68 PN programs responded with the following ratios of faculty or teaching assistant to students during the clinical experience.

Ratio of faculty or teaching assistant to students	Number of programs responding
1:5	3
1:6	2
1:7	3
1:8	35
1:9	5
1:10	19
2:10	1

Capstone or Practicum Clinical Experience Within the Curriculum

Programs were asked if the curriculum concluded with a capstone or practicum course in which the related clinical experience is supervised by a preceptor for the purposes of transitioning the student into practice. Of the 68 programs reporting, 33 programs conclude with a capstone course or practicum clinical experience with clinical clock hours ranging from 12 to 240.

Capstone Examination

Programs were asked to report if they use a capstone examination. Sixty-one programs reported using a capstone examination as follows:

- ❖ Used a capstone that contributed to the course grade – 11
- ❖ Required a passing score on the capstone examination to pass the capstone course – 12
- ❖ Required a passing score on the capstone examination (independent of a course) for successful program completion – 13
- ❖ Used the capstone to provide feedback but the examination had no impact on the student's grade or successful completion of the program – 23
- ❖ Reported none of the above – 2

Twenty-one PN programs reported that a total of 196 students did not successfully complete their program due to failing the required capstone examination as a course or program requirement.

Accreditation

Of the 68 PN programs reporting, 4 are currently NLNAC accredited, and 17 PN programs reported they are considering seeking NLNAC accreditation.

Articulation Agreements

Thirty adult PN programs and three high school PN programs reported having articulation agreements with associate degree granting institutions. Ten adult PN programs reported having articulation agreements with baccalaureate degree granting institutions.

Nursing Employment of 2010-2011 Graduates

The programs reported the number of their previous year's graduates employed in a nursing position during the current reporting period. Since not all graduates reported their employment to the education program, this data is based on those graduates who did report.

Program Type	Number of 2010-2011 Graduates	Nursing 2010-2011 Graduates in Nursing Employment in 2011-2012
Practical Nursing	4,552	2,642