

# Assessment: Program Review Updates prior to Fall 2018



## Program (VOCN) - Nursing Vocational Cert CT.3265

---

### Program Catalog Summary:

Certificate:

SC Program: CT.3265

**PROGRAM DESCRIPTION:** This curriculum is designed to prepare selected individuals to provide nursing care requiring technical-manual skills under the supervision of a Registered Nurse or physician. Upon successful completion of the program, a student receives a Certificate of Completion and is eligible to take the NCLEX-PN for licensure as a Vocational Nurse. Students who have had previous education and experience in nursing will be given the opportunity to receive credit toward completion of the program.

This certificate is approved through the California Community College Chancellor's Office. Upon satisfactory completion of the listed requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this certificate.

### PROGRAM LEARNING OUTCOMES:

Upon successful completion of this certificate:

1. 90% of those students who are eligible to sit for the National Council Licensing Examination for Vocational Nurses (NCLEX-PN) will pass the examination within the first six months of the first attempt.

**GAINFUL EMPLOYMENT INFORMATION:** For information about our graduation rates, the median debt of students who completed this certificate, and other important information, please click on the Gainful Employment Information tab on our website.

### REQUIREMENTS FOR ENROLLMENT INTO THE PROGRAM:

Space in the program is limited. A new class is enrolled every three semesters. In order to be eligible for enrollment, students must satisfy the prerequisites listed Below and file an enrollment packet with the Admissions Office during designated enrollment periods in each semester. All qualified applicants are placed on a waiting list and enrolled on a space available basis in the order of their accepted application date. Specific information is available in the Enrollment Process tab on our website. Students must meet all of the following requirements for application:

1. Students must have a high school diploma or equivalent.
2. Students must be a current Certified Nurse Aide (CNA)
3. Students must complete the following prerequisite courses with a C grade or better. No in-progress courses will be accepted.

### PREREQUISITE COURSES:

BIOL 5 Introduction to Human Biology 3

BIOL 6 Human Biology Lab 1

ECE 1 Human Development 3

FSS 25 Nutrition 3

PSYC 1A General Psychology OR 3

PSYC 14 Psychology of Personal/Social Adjustment

TOTAL UNITS FOR PREREQUISITES 13

### HEALTH & SAFETY CLINICAL CLEARANCE:

Upon acceptance for enrollment, students must meet additional clinical requirements. All students participating in clinical experiences must submit proof of immunity of specific immunizations or serum titers, cleared criminal background check, negative drug screen, current physical examination and negative TB screening, and provide current valid Basic Life Support-

Health Care Provider card (CPR) which includes adult, child & infant resuscitation with two person rescue and AED training). Students are financially responsible for meeting these requirements according to established program process. Specific information is available on the Health and Safety Requirements tab on the website or students may call the Division Office (530-339-3600)

#### CERTIFICATE REQUIREMENTS:

Students must be enrolled in the program in order to take the courses listed below.

NOTE: Students must show competence in both clinical and theory components (a grade of C or better) in order to progress through the curriculum. A failing grade in either theory or clinical components will require withdrawal or result in failure of the program.

VOCN 160 Foundations of Nursing Practice 15

VOCN 161 Nursing of Adults 13

VOCN 162 Nursing of Adults and Children 13

TOTAL UNITS FOR CERTIFICATE: 41

#### RECOMMENDED COURSES (Not required):

ENGL 190 Reading and Writing II

MATH 220 Basic Mathematics

OAS 110 Medical Terminology

### *Fall 2018*

**Prepared By:** Nancy Skaggs, Elaine Carmena, Kristy O'Sullivan

**What improvements are needed? Please reference items from any associated program reviews as needed.:** Resources for continued student success are needed. Kaplan resources (focused review tests, integrated tests, NCLEX-PN practice tests and resources) have been instrumental in improving the Shasta College vocational nursing NCLEX-PN pass rates for 2018. Continued access to Kaplan resources combined with the two day preparation-review course following program completion is essential for student success and future employment as practicing LVN's. Maintaining adequate, experienced faculty and clinical sites are paramount to continued program viability and success.

**Who completed this form?:** Nancy Skaggs

**Participation in the report:** Area Faculty (list in the next box)

**Summarize Participation comments:** Full time and part time vocational nursing faculty are in agreement that lecture, skills lab, scenarios and clinical facility rotations need to promote the correlation between theory and clinical practice. Students who utilize critical thinking and the nursing process in a safe environment (skills lab and simulation) are encouraged to ask questions and work closely with faculty who foster student centered learning. Vocational nursing faculty have revised simulations to include smaller simulation stations to promote student engagement and interaction in smaller groups with assigned faculty. The NCLEX-PN has revised the state licensure exam to promote competency in the following areas (patient safety, the nursing process, physiology, critical thinking). The goal of vocational nursing faculty is to promote student learning and knowledge retention which result in successful NCLEX-PN pass rates thus preparing the students for gainful employment as future LVN's within the community.

**Recommendation for Discontinuance?:** No

**Analyze Overall PLO achievement:** The program learning objective (PLO) is for vocational nursing students from Shasta College to pass the NCLEX-PN on their first attempt. Many students continue on with their education after completion of the vocational nursing program and the sooner students can begin working as an LVN the sooner they can gain valuable patient care experience, skills and knowledge. The goal of faculty is to prepare students in areas of the nursing process, physiology, medication administration, Maslow's theory, effective communication, critical thinking and culturally congruent health care delivery. When students receive education which is appropriate and covers the aforementioned they should be prepared for the state licensure exam. The addition of realistic simulation scenarios will help prepare the students for real life situations in a safe environment conducive to learning and growth. As of September 10, 2018 23 out of 25 students have taken and successfully passed the NCLEX-PN exam

**What changes could be (or have been) made to improve the program?:** The current cohort of vocational nursing students is the second class whereby the 78% has been recognized as the minimal passing percentage for the three semester program. Testing on subject matter is conducted in a variety of methods written fill in (to help with retention and recall), Multiple choice and select all that apply in NCLEX-PN style format (scan tron), and computerized Canvas testing using NCLEX-PN style questions have helped to improve testing proficiency. Kaplan resources have been available since the second week of the first semester providing students with an earlier opportunity to access those resources. Faculty assign Kaplan focused review tests and schedule multiple integrated tests each semester to encourage student familiarity and ease with the computerized, timed testing resources. Shasta College vocational nursing faculty devised a simulation policy and plan with scenarios, etc. for BVNPT

approval (which was gained in August 2018) to utilize 16 hours of simulation for maternal/OB and 16 hours of simulation for pediatrics in lieu of clinical. This was very vital to continued viability for the program because maternal-OB-pediatric clinical experiences are challenging to procure for vocational nursing students. Former students offered high praise for the two day prep course as this course provided good study/learning tips for the students and helped prepare them to take the exam. College purchased systems based videos and access to the Shasta College library Jove videos have provided additional resource materials.

**Resources needed to implement the changes noted above:** Additional clinical sites (especially the addition of rural acute care), additional part-time clinical faculty, Kaplan access and two day prep course upon the completion of the three semester program. Vocational nursing faculty continue to review the revised NCLEX-PN testing plan so that lecture information and testing will align better with the state licensure test material.

**Labor Market Demand:** This program continues to serve an important role in the community by providing an employment pool for our community healthcare partners, as well as career opportunities for individuals in the community. The salary for the LVNs is within the live-able wage as determined by the California Community Colleges Career and Technical organizations. Each of our clinical sites report continuing need for our graduates to fill their employment needs and many of the facilities approached students in their third semester about employment opportunities. The demand for Vocational Nurses in the healthcare sector remains strong with projected growth. Please see the attached document from the US Bureau of statistics in the document section.

**Duplication of training:** Within our North Far North Regional Consortium there are vocational nursing programs located at College of the Siskiyous, Butte college, Feather River College. In addition there is a privately owned career-technical school in Redding that offers vocational nursing (Institute of Technology)

**Program effectiveness:** Number of graduates, add 85% of students who have graduated and passed the California State vocational nursing licensure exam are currently employed as LVNS. Of the 25 students in the December 2017 cohort, 23 have taken and successfully passed the NCLEX-PN on the first attempt. As of September 10, 2018 21 of those successful students are employed as LVN's.

**Other data indications for program improvement:** Full time faculty continue to utilize the Williams and Hopper medical surgical text which is more detailed and complex in data. Full time faculty have adopting the F.A. Davis maternal/pediatric textbook as it provides more detailed information necessary for student learning and comprehension. The F.A. Davis leadership book for LVN students has also been adopted for the current cohort because the material promotes a higher level of learning. Faculty have also introduced the student study guide workbooks and have assigned multiple chapters throughout the semester to encourage additional learning and retention of knowledge. Ensuring that there are adequate clinical sites and faculty will promote student centered learning. Encouraging lecture topic related group class activities will promote critical thinking and introducing online testing through Canvas and Kaplan will familiarize students with the online testing process.

**Replicating community college programs north of Sacramento?:** Within our North Far North Regional Consortium there are vocational nursing programs located at College of the Siskiyous, Butte college, Feather River College. In addition there is a privately owned career-technical school in Redding that offers vocational nursing (Institute of Technology).

**CSU and UC Transfer impact analysis::** Vocational nursing is a certificate program -- not a degree program. 40 - 60% of graduates do enroll in LVN-RN programs for an AS degree and 40-60% continue to take courses immediately following program completion to earn their AS degree prior to applying for various nursing programs.

**Influence on related programs and services:** Although the vocational nursing program is a certificate program many students earn their AS degree by the end of program completion. 40-60% of students who complete the vocational nursing program immediately return to school to finish up prerequisites necessary for an LVN to RN ADN program and many students will continue on after completion of an ADN program to obtain their BSN degree.

**Specific additional program reflections:** Students who complete the vocational nursing program and pass the state licensure exam are able to find gainful employment as an LVN in the Shasta/Tehama/Trinity areas. The demand report indicates that there is a steady growth of jobs available for LVN's (please see the US Bureau of statistics document). While LVN's earn a livable wage, many do return to either Butte College or College of the Siskiyous which are both part of the community college system to continue their nursing careers by enrolling in LVN to RN programs within a two-three year period following completion of the vocational nursing program. Program costs are reasonable and include \$2,000. 00 for the program and \$560. 00 for state licensing fees. Please see the cost of program document included in the general document section. According to the BVNPT, application fees will most likely increase after January 2019 and fees may begin to apply for continuous program approval. Please see attached documents.

**Other factors for consideration:** The vocational nursing program is a three semester program which requires specific hours per the BVNPT. Students complete 8 hours of lecture weekly and 16-24 hours of clinical/skills lab days or simulations each week. Clinical shifts are completed at a variety of clinical settings and students fulfill clinical hours on both am and pm shifts. There currently is no online component to this program although students are encouraged to utilize online resources for data collection and knowledge enhancement. In addition, helpful resources such as the Khan academy and Shasta College library Jove videos are assigned for various systems and subjects. Although ITV has been an option for students in the past we are not using this classroom option currently. Students begin the program by enrolling in VOCN 160 for the first semester. VOCN 161

becomes a prerequisite for the second semester VOCN 161 which then becomes a prerequisite for the third and final semester VOCN 162. Students must successfully complete each course/semester with a minimum passing percentage of 78% prior to moving on to the next course/semester.

**\*\*TO BE COMPLETED BY THE PROGRAM REVIEW COMMITTEE\*\* PRC Action::** PRC recommends the program continue without qualification

**Summary Date:** 11/20/2019

**Summary of findings:** The PRC recommends this program continue without qualification. The program has a four-year average (16/17 did not appear in the report) of 17.75 completers (2013/14 to 2017/18). The 5-year average success rate for the three certificate classes is 93.85%, which is above the Institution-set Standard of 70%. Retention rates are very strong with a five-year average of 94.24% for classes in the certificate. Enrollments appear consistent with a 5-year average of 24.5 students per section. The PLO's have been mapped to ISLO's, SLO's to PLO's, and SLO's to ISLO's. They report favorable outcomes with one PLO: "The program learning objective (PLO) is for vocational nursing students from Shasta College to pass the NCLEX-PN on their first attempt. " They report that "As of September 10, 2018 23 out of 25 students have taken and successfully passed the NCLEX-PN exam."

The PRC recognizes the Vocational Nursing Faculty for their in-depth Program Review. We appreciate the amount of effort put forward to assuring students can earn this certificate for a livable wage, and those interested can continue their education with several paths forward. The faculty are further recognized for their work in providing a variety of learning resources and styles to help students with retention and recall of key material. Finally, we thank them for the entire sequence of ISLO, PLO, and SLO mapping.

**Summary review date:** 11/20/2019

**Date summary sent to program faculty and/or counselors:** 11/21/2019

**Program faculty response:** None from Faculty

Sue Loring, Counselor said, " Yes, the LVN program is an excellent program and is of great benefit to our students! To further enhance its positive impact on students' lives, it would be really nice if Shasta College could offer a LVN-RN program. Currently, students who complete the certificate must commute to COS or Butte to upgrade if they want to upgrade their skills in nursing." Shaunna Rossman, Counselor replied, "I concur."

**Date summary sent to College Council:** 12/13/2019

**Date reviewed by College Council:** 12/17/2019

**College Council response or additional action:** Acknowledged receipt.

**Superintendent/President response/additional action:**

**Related Documents:**

[US Bureau of statistics LVN employment projections July 2018.docx](#)

[2017-2018 Annual Report.05-04-18.pdf](#)

[Shasta College vocational nursing program follow up report August 2018.docx](#)

[Proposed schedule re VN School Fees \(June\\_July 2018\).pdf](#)

[BVNPT Stakeholder Meeting Recap.pdf](#)

[SHASTA COLLEGE\\_Redacted.pdf NCLEX-PN pass rates November 2018.pdf](#)

[Board approval request for Simulation - Shasta 8.8.18.docx](#)

## Course Statistics

			Acyr / Term						
			2013-14		2014-15		2015-16		2016-17
Subject	Course Name		2013F	2014S	2014F	2015S	2015F	2016S	2016F
VOCN	VOCN-160	# Sections	3.0			3.0			4.0
		Census Enrollment	22.0			28.0			29.0
		Capacity	36.0			36.0			40.0
		Avg. Fill Rate	61.1%			77.8%			72.5%
		Ftes	21.3			27.4			28.0
		Ftef	3.68			3.68			4.73
		Ftes/Ftef	5.8			7.4			5.9
		Weekly Contact Hrs	612.0			822.0			841.0
	VOCN-161	# Sections		2.0			3.0		
		Census Enrollment		23.0			24.0		
		Capacity		23.0			36.0		
		Avg. Fill Rate		100.0%			66.7%		
		Ftes		18.4			19.2		
		Ftef		1.97			4.00		
		Ftes/Ftef		9.3			4.8		
		Weekly Contact Hrs		552.0			576.0		
	VOCN-162	# Sections			3.0			3.0	
		Census Enrollment			22.0			22.0	
		Capacity			34.0			45.0	
		Avg. Fill Rate			65.0%			48.9%	
		Ftes			17.6			17.5	
		Ftef			4.00			3.47	
		Ftes/Ftef			4.4			5.1	
		Weekly Contact Hrs			528.0			510.0	
	Grand Total	# Sections	3.0	2.0	3.0	3.0	3.0	3.0	4.0
		Census Enrollment	22.0	23.0	22.0	28.0	24.0	22.0	29.0
		Capacity	36.0	23.0	34.0	36.0	36.0	45.0	40.0
		Avg. Fill Rate	61.1%	100.0%	65.0%	77.8%	66.7%	48.9%	72.5%
Ftes		21.3	18.4	17.6	27.4	19.2	17.5	28.0	
Ftef		3.68	1.97	4.00	3.68	4.00	3.47	4.73	
Ftes/Ftef		5.8	9.3	4.4	7.4	4.8	5.1	5.9	
Weekly Contact Hrs		612.0	552.0	528.0	822.0	576.0	510.0	841.0	

# Sections, Census Enrollment, Capacity, Avg. Fill Rate, Ftes, Ftef, Ftes/Ftef and Weekly Contact Hrs broken down by Acyr and Term (XWFRDwCurrent (Xwfr\_DW)) vs. Subject and Course Name (XWFRDwCurrent (Xwfr\_DW)). The data is filtered on Division, Course Name, Location Desc, Exted Flag, Gender, Ethnicity and Age In Term (group). The Division filter keeps ACSS, BAITs, HSUP, PEAT and SLAM. The Course Name filter keeps VOCN-160, VOCN-161 and VOCN-162. The Location Desc filter excludes Null and Redding - Off Campus. The Exted Flag filter keeps Null, N and Y. The Gender filter keeps Unknown, Female and Male. The Ethnicity filter keeps 9 of 9 members. The Age In Term (group) filter keeps multiple members. The view is filtered on Acyr, Subject and Term (XWFRDwCurrent (Xwfr\_DW)). The Acyr filter keeps 2013-14, 2014-15, 2015-16, 2016-17 and 2017-18. The Subject filter keeps 87 of 94 members. The Term (XWFRDwCurrent (Xwfr\_DW)) filter keeps 12 of 31 members.

## Course Statistics

			Acyr / Term		
			2016-17	2017-18	
Subject	Course Name		2017S	2017F	2018S
VOCN	VOCN-160	# Sections			3.0
		Census Enrollment			24.0
		Capacity			30.0
		Avg. Fill Rate			80.0%
		Ftes			23.8
		Ftef			3.68
		Ftes/Ftef			6.5
		Weekly Contact Hrs			668.0
	VOCN-161	# Sections	3.0		
		Census Enrollment	26.0		
		Capacity	30.0		
		Avg. Fill Rate	86.7%		
		Ftes	20.8		
		Ftef	2.93		
		Ftes/Ftef	7.1		
		Weekly Contact Hrs	624.0		
	VOCN-162	# Sections		3.0	
		Census Enrollment		25.0	
		Capacity		30.0	
		Avg. Fill Rate		83.3%	
		Ftes		12.2	
		Ftef		2.93	
		Ftes/Ftef		4.2	
		Weekly Contact Hrs		356.0	
Grand Total		# Sections	3.0	3.0	3.0
		Census Enrollment	26.0	25.0	24.0
		Capacity	30.0	30.0	30.0
		Avg. Fill Rate	86.7%	83.3%	80.0%
		Ftes	20.8	12.2	23.8
		Ftef	2.93	2.93	3.68
		Ftes/Ftef	7.1	4.2	6.5
		Weekly Contact Hrs	624.0	356.0	668.0

# Sections, Census Enrollment, Capacity, Avg. Fill Rate, Ftes, Ftef, Ftes/Ftef and Weekly Contact Hrs broken down by Acyr and Term (XWFRDwCurrent (Xwfr\_DW)) vs. Subject and Course Name (XWFRDwCurrent (Xwfr\_DW)). The data is filtered on Division, Course Name, Location Desc, Exted Flag, Gender, Ethnicity and Age In Term (group). The Division filter keeps ACSS, BAITs, HSUP, PEAT and SLAM. The Course Name filter keeps VOCN-160, VOCN-161 and VOCN-162. The Location Desc filter excludes Null and Redding - Off Campus. The Exted Flag filter keeps Null, N and Y. The Gender filter keeps Unknown, Female and Male. The Ethnicity filter keeps 9 of 9 members. The Age In Term (group) filter keeps multiple members. The view is filtered on Acyr, Subject and Term (XWFRDwCurrent (Xwfr\_DW)). The Acyr filter keeps 2013-14, 2014-15, 2015-16, 2016-17 and 2017-18. The Subject filter keeps 87 of 94 members. The Term (XWFRDwCurrent (Xwfr\_DW)) filter keeps 12 of 31 members.

## Success/Retention Tables

			Acyr / Term						
Subject	Course Name		2013-14		2014-15		2015-16		2016-17
			2013F	2014S	2014F	2015S	2015F	2016S	2016F
VOCN	VOCN-160	Avg Seats per Section	8.67		10.33			7.25	
		Success Rate	95.65%		89.29%			89.66%	
		RetentionRate	95.65%		89.29%			89.66%	
	VOCN-161	Avg Seats per Section		11.50			8.33		
		Success Rate		91.30%			88.00%		
		RetentionRate		91.30%			88.00%		
	VOCN-162	Avg Seats per Section			7.33		7.33		
		Success Rate			100.00%		100.00%		
		RetentionRate			100.00%		100.00%		
Grand Total		Avg Seats per Section	8.67	11.50	7.33	10.33	8.33	7.33	7.25
		Success Rate	95.65%	91.30%	100.00%	89.29%	88.00%	100.00%	89.66%
		RetentionRate	95.65%	91.30%	100.00%	89.29%	88.00%	100.00%	89.66%

Avg Seats per Section, Success Rate and RetentionRate broken down by Acyr and Term vs. Subject and Course Name. The data is filtered on Division, Location Desc, Exted Flag, Gender, Ethnicity and Age In Term (group). The Division filter keeps ACSS, BAITS, HSUP, PEAT and SLAM. The Location Desc filter excludes Null and Redding - Off Campus. The Exted Flag filter keeps Null, N and Y. The Gender filter keeps Unknown, Female and Male. The Ethnicity filter keeps 9 of 9 members. The Age In Term (group) filter keeps multiple members. The view is filtered on Acyr, Subject and Course Name. The Acyr filter keeps 2013-14, 2014-15, 2015-16, 2016-17 and 2017-18. The Subject filter keeps 87 of 94 members. The Course Name filter keeps VOCN-160, VOCN-161 and VOCN-162.

## Success/Retention Tables

Subject	Course Name		Acyr / Term		
			2016-17	2017-18	
			2017S	2017F	2018S
					5 Yr Avg
VOCN	VOCN-160	Avg Seats per Section		8.67	8.73
		Success Rate		88.46%	90.76%
		RetentionRate		92.31%	91.73%
	VOCN-161	Avg Seats per Section	8.67		9.50
		Success Rate	96.15%		91.82%
		RetentionRate	96.15%		91.82%
	VOCN-162	Avg Seats per Section		8.33	7.67
		Success Rate		100.00%	100.00%
		RetentionRate		100.00%	100.00%
Grand Total		Avg Seats per Section	8.67	8.33	8.67
		Success Rate	96.15%	100.00%	88.46%
		RetentionRate	96.15%	100.00%	92.31%

Avg Seats per Section, Success Rate and RetentionRate broken down by Acyr and Term vs. Subject and Course Name. The data is filtered on Division, Location Desc, Exted Flag, Gender, Ethnicity and Age In Term (group). The Division filter keeps ACSS, BAITs, HSUP, PEAT and SLAM. The Location Desc filter excludes Null and Redding - Off Campus. The Exted Flag filter keeps Null, N and Y. The Gender filter keeps Unknown, Female and Male. The Ethnicity filter keeps 9 of 9 members. The Age In Term (group) filter keeps multiple members. The view is filtered on Acyr, Subject and Course Name. The Acyr filter keeps 2013-14, 2014-15, 2015-16, 2016-17 and 2017-18. The Subject filter keeps 87 of 94 members. The Course Name filter keeps VOCN-160, VOCN-161 and VOCN-162.



## CCCCO Program Awards As of 09/21/2018

Award Type	Program Co..	Top Code	Program Title	Acyr			
				2013-14	2014-15	2015-16	2017-18
Grand Total				1	21	25	24
Certificate requiring 30 to fewer th..	CT.3265	123020	CERT Vocational Nursing	1	21	25	24

Count of CCCCCO Assigned broken down by Acyr vs. Award Type, Program Code, Top Code and Program Title. The view is filtered on Award Type and Program Code. The Award Type filter keeps 7 of 7 members. The Program Code filter keeps CT.3265.

## SC Internal Awards - Data As of 09/24/2018 HSUP

Award Type	Division	Program Co..	Title	Academic Year				
				2013-14	2014-15	2015-16	2016-17	2017-18
Grand Total				1	21	25	1	24
Certificate - 30 - 59 U..	HSUP	CT.3265	CERT Vocational Nursing	1	21	25	1	24

Count of Acad Person Id broken down by Academic Year vs. Award Type, Division, Program Code and Title. The data is filtered on Major, Age Group, Gender and Ethnicity. The Major filter keeps 83 of 60 members. The Age Group filter keeps 7 of 7 members. The Gender filter keeps F, M and NULL. The Ethnicity filter keeps 9 of 9 members. The view is filtered on Division, Program Code and Award Type. The Division filter keeps ACSS, BAITs, HSUP, PEAT and SLAM. The Program Code filter keeps CT.3265. The Award Type filter keeps 8 of 7 members.