



Docket Item:

Community College Approval: Chemeketa Community College, Associate of Applied Science in Anesthesia Technology, within 51.0809 - Anesthesiologist Assistant.

Summary:

Chemeketa Community College proposes a new AAS degree in Anesthesia Technology. Higher Education Coordinating Commission (HECC) staff completed a review of the proposed program. After analysis, HECC staff recommends approval of the degree as proposed.

Staff Recommendation:

The HECC recommends the adoption of the following resolution:
RESOLVED, that the Higher Education Coordinating Commission approve the following degree: AAS in Anesthesia Technology.

Chemeketa Community College seeks the Oregon Higher Education Coordinating Commission's approval to offer an instructional program leading to a degree in Anesthesia Technology.

Program Summary

The Anesthetic Technology program provides the student with entry level training leading to an Associate of Applied Science (AAS) degree. The curriculum is based on the American Society of Anesthesia Technologist and Technicians (ASATT) standards and guideline as well as the Commission on Accreditation of Allied Health Education Programs (CAAHEP) standards. Coursework includes the following: Anatomy and Physiology, Microbiology, Medical Terminology, Pharmacology, EKG Analysis, anesthesia equipment principles and applications, and general medical knowledge. Included in the program are intensive clinical experiences in local area hospitals.

1. *Describe the need for this program by providing clear evidence.*

Salem Hospital came to the college to request this program due to a shortage of anesthesia technologists in the college's service area due to no anesthesia technology programs in Oregon. On the west coast there are only two such programs: Renton Technical College in Renton, Washington and Pasadena City College in Pasadena, California.

This need is reinforced by members of the Anesthetic Technology Advisory Committee minutes. Dr. Craft and Denise Hoover from Salem Health noted that finding surgical techs and anesthesia techs to hire and retain is a struggle; the issue is nationwide. Salem Hospital is looking to hire 6-10 applicants. Other large hospitals in the area are in need of hiring these technicians such as:

- Legacy Health (Portland to Eugene)
- Providence (Portland area)
- OHSU (Portland)
- Samaritan Health (Albany)
- PeaceHealth (Vancouver, WA)

In fact, according to Gary West of Renton Technical College in Renton, Washington, two students are applying in Portland and two additional students are applying for jobs at Salem Hospital in just this year along with at least two other students who are presently working in Portland due to a lack of graduates in the area.

This degree would encompass the areas of Medical Terminology, Chemistry, Microbiology, and so forth. It combines both theory and hands-on technical training including three practicum courses to give students the required applied learning opportunities that will give them the best opportunity to pass the American Society of Anesthesia Technologists and Technicians certification examination and to find a job that is in high demand.

2. *Does the community college utilize systemic methods for meaningful and ongoing involvement of the appropriate constituencies?*

The college uses a range of sources to establish ongoing partnerships with its community constituencies. Some of these partnerships include Northwest Commission on Colleges and Universities, the State Board of Education, Community College & Workforce Development, employment advisory boards and student placement connections, professional organizations, and licensing boards for appropriate occupations.

The Anesthetic Technology program was approved on February 8, 2018 by the Chemeketa Community College Curriculum Committee and then approved by Chemeketa Community College's Board of Education on February 21, 2018.

Chemeketa Community College has partnerships with local high schools to offer the course in their schools for college credit. These courses will prepare students for entry into the program soon after graduating. Other required and general education courses will be valuable in preparation for entrance into the program and the workforce.

Another valuable partnership with workforce and economic development partners assist building a skilled and trained workforce ready to enter their fields immediately upon completion of programs. The Anesthetic Technology department that will be offering this Anesthetic Technology Associate of Applied Science has an advisory committee composed of professionals across the Willamette Valley:

- Jeanine Scott (Salem Health)
- Dr. Greg Craft (Salem Health—Anesthesia Technology Medical Director)
- Denise Hoover (Salem Health)
- Gary West (Renton Technical College)
- Angela Douglas (Salem Health)
- Peter Hofstetter (West Valley Medical Center)

3. ***Is the community college program aligned with appropriate education, workforce development, and economic development programs?***

- ANES101—Introduction to Anesthesia Technology
- ANES102—Anesthesia Equipment: Principles and Application
- ANES103—Anesthesia Technology Lab 1
- ANES104—Anesthesia Technology Lab 2
- ANES105—Anesthesia Technology Lab 3
- ANES112—Operating Room Environment
- ANES130—ACLS/PALS with EKG Analysis
- ANES203—Anesthesia Technology Lab 4
- ANES204—Anesthesia Technology Lab 5
- ANES210—Anesthesia Technology Clinical Practicum 1
- ANES211—Anesthesia Technology Clinical Practicum 2
- ANES212—Anesthesia Technology Clinical Practicum 3
- ANES215—Anesthesia Technology Certification Exam Prep
- PHM243—Pharmacology 1 for the Anesthesia Technologist
- PHM244—Pharmacology 2 for the Anesthesia Technologist

These courses were based on a curriculum from Renton Technical College in Renton, Washington and are aligned with the American Society of Anesthesia Technologists and Technicians to lead these students to take their certification examination.

Chemeketa's Anesthesia Technology Associate of Applied Science program will lead to employable skills at the end of the program. While local wage data is not available as the code for an anesthesia technician is also mapped to physician assistants, it does inflate the average wages. However, Salem Health has an advertisement on indeed.com that has been posted for more than 30 days as of January 24, 2018 looking to pay a sign-on bonus of up to \$5,000 along with up to a \$10,000 relocation allowance with a wage range of \$20.54 to \$29.36 per hour (\$42,700-\$61,000 per year).

4. ***Does the community college program lead to student achievement of academic and technical knowledge, skills, and related proficiencies?***

The design of the program is a 108 credit hour approved Associate of Applied Science degree. The primary audience for this program are students who wish to enter the medical field and possibly continue on to eventually obtain an MD to go into an Anesthesiology practice. The learner outcomes for each course provide a range of skills to allow graduates to pursue employment in this industry:

- ANES101—Introduction to Anesthesia Technology
 - Discover legal issues including HIPPA and ethical matters.
 - Observe basic airway management equipment.
 - Explain basic patient care skills.
- ANES102—Anesthesia Equipment: Principles and Application
 - Demonstrate set-up and use of complex anesthesia equipment.
 - Describe safety and asepsis techniques in machine maintenance.
 - Prepare anesthesia equipment for proper disposal, cleaning, and sterilization requirements.
- ANES103—Anesthesia Technology Lab 1
 - Discuss hemodynamic monitoring.
 - Describe the types of anesthesia.
 - Perform basic patient care skills.
- ANES104—Anesthesia Technology Lab 2
 - Demonstrate set-up and function of basic equipment for anesthesia care.
 - Demonstrate ability to utilize monitoring equipment during invasive, non-invasive, emergent, and non-emergent procedures.
 - Apply anesthesiology processes and critical thinking to the care of the surgical patient at the foundational level.
- ANES105—Anesthesia Technology Lab 3
 - Apply didactic knowledge of use of appropriate airway equipment in simulation exercises for the basic and complex patient.
 - Demonstrate set-up and function of advanced equipment for anesthesia care.
 - Apply anesthesiology process and critical thinking to the care of the surgical patient at the advanced level.
- ANES112—Operating Room Environment
 - Compare and contrast the various patient anatomical positions or surgical cases.
 - Identifies protocols that govern the operating room.
 - Applies knowledge of patient positioning in relation to operating table and equipment.
- ANES130—ACLS/PALS with EKG Analysis
 - Demonstrate use of clinical interventions for treatment of life threatening medical emergencies.
 - Differentiate between the various types of airway equipment used in the difficult airway cart.
 - Differentiate between the various types of medications used in the urgent/emergent medical situations.
- ANES203—Anesthesia Technology Lab 4
 - Demonstrate appropriate use of airway equipment in simulation exercises.
 - Continues to apply psychomotor skills in the selection of proper anesthesia equipment for surgical cases.
 - Continues to demonstrate set-up and function of advanced equipment for anesthesia care.
 - Continues to apply anesthesiology process and critical thinking to the care of the surgical patient at the advanced level.
 - Performs advanced airway algorithms.
 - Demonstrate emergency response and procedures within the scope of the practice of the anesthesia technician.

5. *Does the community college identify and have the resources to develop, implement, and sustain the program?*

- The Northwest Commission on Colleges and Universities (NWCCU) accredits Chemeketa Community College.

- This new program will have startup costs that the college will support. The initial faculty hire will be someone who meets the need as Program Chair. This requires someone with an Associate's Degree and five years' experience as an Anesthesia Technician. We expect the salary range to be \$53,260-\$68,042 (\$68,000-\$87,000 with estimated fringe benefits) depending on the bargaining agreement contract. Following the initial hire of a Program Chair, there may be the need to hire one additional faculty member at .5 FTE at a potential cost of \$18,000 including fringe benefits
 - Year 1: Revenue: \$35,680, Expenditures \$214,333; Institutional Financial Support \$178,653
 - Year 2: Revenue: \$53,520, Expenditures \$188,738; Institutional Financial Support \$135,218
 - Year 3: Revenue: \$71,360, Expenditures \$157,344; Institutional Financial Support \$85,984
- Chemeketa Community College has begun programs over the last fifty plus years and has had the institutional support in hiring qualified and trained faculty to teach in all CTE programs.
- The Anesthetic Technology program and courses have been developed and approved by the employer-based advisory committee, as well as approved (pending) by the college's Curriculum Committee, and Chemeketa Community College's Board of Education (pending).
- Faculty will regularly participate in professional development activities to stay current and up-to-date industry changes and requirements, which will translate into the classroom learning environment.
- The program will reside at the Salem campus.
- The college has strong relationships with industry partners/employers and will continue to foster these relationships. The Anesthetic Technology program has an employer-based advisory committee. This program will continue to work with local industry leaders and educational institutions to recruit students for this program.

Assurances

Chemeketa Community College has met or will meet the four institutional assurances required for program application.

1. *Access.* The college and program will affirmatively provide access, accommodations, flexibility, and additional/supplemental services for special populations and protected classes of students.
2. *Continuous Improvement.* The college has assessment, evaluation, feedback, and continuous improvement processes or systems in place. For the proposed program, there will be opportunities for input from and concerning the instructor(s), students, employers, and other partners/stakeholders. Program need and labor market information will be periodically re-evaluated and changes will be requested as needed.
3. *Adverse impact and detrimental duplication.* The college will follow all current laws, rules, and procedures and has made good faith efforts to avoid or resolve adverse *intersegmental* and *intrasegmental* impact and detrimental duplication problems with other relevant programs or institutions.
4. *Program records maintenance and congruence.* The college acknowledges that the records concerning the program title, curriculum, CIP code, credit hours, etc. maintained by the Office are the official records and it is the college's responsibility to keep their records aligned with those of the Office. The college will not make changes to the program without informing and/or receiving approval from the Office.