# Initiative Report for Health Professions 2009-10

## Maintenance and Growth of the Respiratory Care Program

### Summary:

The Respiratory Care Program has been mandated by the College to make all didactic courses available on line beginning in Fall, 2009. In addition, it is a goal of the division to maintain the program as one preparing graduates for entry-level positions in the health card industry.

### Description

The mandate to revise the courses which comprise the didactic component of the Respiratory Program by Fall of 2009 requires that all didactic courses be available to students term-by-term. In addition the continued provision of on-campus lab learning for Lane students as well as any distance students from other schools is required. A significant amount of planning is required to create the necessary letters of agreement with other educational institutions with which Lane will create partnerships, to plan for and provide the on-campus lab experiences for local and distant students and to initiate and maintain the necessary clinical affiliations for students in both the clinical and cooperate education components. The two full-time and the three primary part-time faculty involved in this program are required to both develop and learn how to teach on line courses.

### Questions and Answers

**How is the initiative linked to the Unit Plans most recently submitted?**

1. **How does it continue the achievement of those goals?**
2. **If this is a continuation of an initiative started last year, make sure that relationship is clear.**

**How is this initiative linked to the efficiencies and productivities plans you had last year?**

1. **How does it continue the achievement of these plans?**
2. **If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.**

Online conversion is College-mandated.
Maintenance of the Respiratory Care Program relative to providing the didactic and technical skills required for entry-level employment in the health care industry is a division goal.

**Describe the resources needed:**

The Respiratory Care Program is requesting 300 Hours of Curriculum Development funding through Carl Perkins and Curriculum Development Funding for the purpose of continuing the online adaptation of theory courses and the preparation of the full and part-time faculty to be able to teach the adapted courses.

The equipment needs for the Respiratory Care Program being requested through both Carl Perkins and the Tech Fee Funding are:

> Upgrade of Instructional Software to enhance student learning in Pediatric Care: PCS-03 Asthma, PCS-04 Bronchiolitis, PCS-05 CPR, PCS-06 Chest Trauma, PCS-10 Muscular Dystrophy, PCS-12 Pediatric Transport, PCS-13 Respiratory Distress Syndrome, PCS-14 Status Asthmaticus, PCS-Poxic Substance Ingestion at a cost of $4005.00 which includes the Site License.

> One LifeForm Auscultation Trainer (Providing students experience in learning proper techniques for listening to breath sounds and differentiating between normal and abnormal sounds) at a cost of $2600.00.

> One NND EasyOne Spirometer (Providing students the opportunity to learn basic pulmonary function assessment. The purchase of this item will increase student/equipment ratio to one-to-six instead of one-to-twelve, allowing students increased learning time) at a cost of $1790.00

> Upgrade of Instructional Software to enhance student learning in Pediatric Respiratory Care (MES-01 Arterial Blood Gases I, MES-21 Arterial Blood Gases II, MES-04 ElectroCardiogram II, MES-09 Chest Tubes, MES-11 Complete Chest Exam, OST-02"Team Play Arterial Blood Gases at a cost of $2495.00 which includes Site License.

>Two each Posey Cufflator/Standard (Equipment used to monitor and regulate air pressure in the ET tube cuffs. Will allow students to practice in the lab with the same equipment as is used at the clinical sites) at a cost of $700.00.

**What specific measurable program outcomes do you expect to achieve with this initiative? The outcomes should be specific enough to be measurable. Also, outline the method that will be used to determine the results.**

We expect to continue to achieve the program outcomes: The graduate will:

> provide treatment, management, control and care of patients with deficiencies and abnormalities associated with respiration.

> provide patients with therapeutic use of medifal gases, air and oxygen administering apparati.

> appropriately use environmental control systems, humidification and aerosols, medications and ventilatory control.

> supervise postural drainage, chest physiotherapy and breathing exercises.

> perform cardiopulmonary resuscitation, and measure and maintain natural, artificial and mechanical airways.

> use appropriate library and information resources to research professional issues and support lifelong learning.

> formulate questions that an be addressed with data and collect, organize and present relevant data to answer them.

These outcomes are measured by question/answer tests and by criteria-focused grading of student return demonstrations.

**Department Priority:**

3

**Unit Resources:**

The College SIF grant has funded the beginning phase of implementing this initiative. General funds are not available to fund the requested resources.

## Funding Request: Carl Perkins

**Is this a Career & Technical Education program approved by the state and offered through Lane for credit?**

Yes

**If not a Career & Technical Education program, does your request provide considerable support for students enrolled in these programs?**

No

**Do you have an advisory committee that meets 2-3 times per year?**

Yes

**If request is for personnel, will funds be used to replace an existing position?**

**How will funding this initiative increase or sustain the academic achievement and technical skills attainment (GPA of 2.0 or better) of Career and Technical Education students?**

The funding of this initiative will sustain the academic achievement and technical skills of student and increase them by provide more learning time in the on campus labs with instructors and equipment.

**How will funding this initiative increase or sustain the number of CTE students that graduate or receive a one year certificate from Lane and help prepare the students for employment?**

This initiative will help prepare students for employment upon graduation by enhancing their learning of entry-level technical skills required for employment in health care facilities.

**EQUIPMENT $**

11590

**COMPUTER HARDWARE $**

**COMPUTER SOFTWARE $**

6500

**MATERIALS & SUPPLIES $**

**CURRICULUM DEVELOPMENT (Hours)**

300

**PART-TIME FACULTY $**

**TIMESHEET STAFF $**

**TRAVEL $**

**Can this initiative be partially funded?**

No

**EQUIPMENT $**

**(E) Explanation of effect of partial funding:**

**COMPUTER HARDWARE $**

**(CH) Explanation of effect of partial funding:**

**COMPUTER SOFTWARE $**

**(CS) Explanation of effect of partial funding:**

**MATERIALS & SUPPLIES $**

**(MS) Explanation of effect of partial funding:**

**CURRICULUM DEVELOPMENT (HOURS)**

**(CD) Explanation of effect of partial funding:**

**PART-TIME FACULTY $**

**(PF) Explanation of effect of partial funding:**

**TIMESHEET STAFF $**

**(TS) Explanation of effect of partial funding:**

**TRAVEL $**

**(T) Explanation of effect of partial funding:**

## Funding Request: Curriculum Development

**1. List the following information**

- **Course Numbers (titles if not currently offered)**
- **Instructor Name(s) who will work on the curriculum development**
- **Whether each of the courses is in, or has been through, the curriculum approval process**

All didactic courses in the Respiratory Care Curriculum:
RT 112
RT 114

RT 146
RT 116
RT 127
RT 144
RT 254
RT 126
RT 110
RT 136
RT 244
RT 216

This curriculum development effort will be led by the full time RT faculty, Norma Driscoll and Abby Erickson with the involvement of the part-time faculty, Jason Childers, Shannon Mulhern and Stuart Nurre.

All of there courses are approved by the curriculum committee.

**2. List each course number (or title) and the materials to be created for each class**

- **Instructional goals, objectives, syllabi and outlines**
- **Lab instruction packets**
- **Practice, quiz, presentation &/or demonstration materials**
- **Other (specify)**

Please see listing above under #1 as the list includes all didactic courses in the Respiratory Care curriculum.

While the curriculum revision will focus on adaptation of courses to online format and hybrid format, there will be some need for revision of on-campus lab packets and demonstration materials.

**3. List each course number (or title) and give your timeline for beginning and completing each course curriculum development.**

While courses RT 112, RT 114, and RT 146 must be ready to be provided on line in Fall Term 2009, the adaptation of the courses RT 116, RT 127, and RT 144 will need to be ready for Winter Term 2010, and RT 254 and RT 126 will need to be ready by Spring Term, 2010 and RT 110 and RT 136 will need to be ready for Summer Term, 2010. This is the only opportunity to request curriculum development funds for that time period. It is anticipated that the SIF grant will continue to fund a portion of this effort.

**4. What are up to 3 departmental instructional goals that are met through the development of curriculum in each class?**

This is a College-mandated activity.
The general division instructional goal that is being met, however, if the maintenance of

the health care programs at a level which will provide graduates with entry-level skills for employment in health care facilities in the community.

**5. List each course number (or title) and give the value of the development of curriculum in each course to other faculty members.**

Please see #1 above for the complete listing. The value of this curriculum development rests primarily the the faculty involved in the Respiratory Care Program. It is valuable to the faculty of the entire division to maintain the excellence of all of the programs.

**6. List each course number (or title) and say how many students will be served by the development of curriculum in each class.**

Please see the listing for the courses under #1 above. 30 students are admitted to the Respiratory Care Program annually.

**7. List each course number (or title) and give the specific benefits to students that you expect from the development of curriculum in each class.**

Please see the complete listing under #1 above. The benefits to the students will be similar in all of the classes being adapted. The anticipate benefits are convenience and flexibility associated with online classes, the ability of students at distance sites being able to participate in the Respiratory Care Program due to the online curriculum.

**8. List each course number (or title) and give the specific benefits for diversity that you expect from the development of curriculum in each class.**

Please see complete list of classes under #1 above. The primary benefit for diversity is related to students having increased flexibility in taking the courses on line. This may benefit students with individual life circumstances which would limit their being able to attend all classes on campus.

**9. List each course number (or title) and give the specific benefits to sustainability that you expect from the development of curriculum in each class.**

Please see complete list of courses under #1 above.

It is anticipated that providing the Respiratory Care Program primarily online and/or in hybrid format will allow Lane to partner with other educational institutions and subsequently create a situation in which Lane is the primary provided of Respiratory Care education for the state and, perhaps, beyond the state. It is also possible that, after the initial start-up costs, the maintenance of the program will be more cost-effective.

**10. List each course number (or title) and give the specific effects on distributed learning that you expect from the development of curriculum in each class.**

Cannot address.

**Hours requested for Curriculum Development funding:**

**Please enter the amount of one of the following:**

- **100 hours maximum for new development.**
- **70 hours maximum for course revision**
- **50 hours for 3-4 credit conversion**
- **other (use if multiple courses addressed in one initiative**

**Do not enter any characters other than numbers and a decimal.**

**How many hours are you requesting? If there are multiple courses addressed in the initiative, please list each course number (or title) and give the number of hours requested for each course.**

300

**Can this initiative be partially funded?**

Yes

**Partially funded curriculum development HOURS requested:**

200

**Explanation of effect of partial funding:**

Partial funding will make implementation of the online program more difficult to achieve.

## Funding Request: Technology Fee

**1. Category of request**

- **Maintain existing technology**
- **Increase student access to technology**
- **New technology**

**Please type in the category of the request in the field below.**

Increase student access to technology and new technology

**2. Campus location**

- **Main Campus**
- **Downtown Center**
- **Florence**
- **Cottage Grove**
- **CLC (list specific locations)**

**Please type in the location of the request in the field below.**

Main Campus

**3. Names of the person(s) with more information (if needed):**

Norma Driscoll, Respiratory Care Program Coordinator.

**4a. Budget ORGN**

**4b. Budget PROG**

**5.How many students will benefit per year?**

60

**6. Describe the benefit?**

Students will be benefited insofar as they will have access to the state-or-the art learning technology for the content taught by the requested software. This access will enhance their ability to learn the entry-level skills required by the health care facilities which will employ them upon graduation.

**COMPUTER HARDWARE $**

**COMPUTER SOFTWARE $**

6500

**STAFFING $**

**INSTALLATION $**

**LICENSING $**

**Can this initiative be partially funded?**

Yes

**COMPUTER HARDWARE $**

**(CH) Explanation of effect of partial funding:**

**COMPUTER SOFTWARE $**

4005

**(CS) Explanation of effect of partial funding:**

Either of the above software packages could be funded as a unit. The students would, obviously, not benefit by the learning package not funded. The package for $4005.00 is the first priority of the program.

**STAFFING $**

**(S) Explanation of effect of partial funding:**

**INSTALLATION $**

**(I) Explanation of effect of partial funding:**

**LICENSING $**

**(L) Explanation of effect of partial funding:**

Site licenses are included in the cost of the packages.