**JACKSON COLLEGE OFFICIAL COURSE OUTLINE**

**Course number, title and credits; total time allocation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course Letter/Number | **RES 120** | Credits | **6** | Title | **Respiratory Care Techniques III** |
|  |  |  |  |  |  |
| Lecture/Discussion | **60** | hrs/semester |  | Lab | **60** | hrs/semester |  | Clinical | **0** | hrs/semester |

**Catalog Description and Pre- and Co-requisites (Same as taxonomy and catalog)**

**Mechanical ventilation topics are continued in this classroom and laboratory course. Topics presented include volume pre-set and pressure pre-set ventilator equipment and basic ventilator application and management techniques for adult patients.**

**Knowledge, Skills and Abilities Students Acquire from this Course (Educational Objectives)**

* **Perform calculations including prediction of minute ventilation changes and FIO2 changes needed to achieve desired ventilatory outcomes, calculations of compliance, resistance, and corrected tidal volumes, and demonstrate ventilatory changes that would achieve the desired outcomes for simulated ventilator patients ADO 7**
* **Demonstrate mastery of concepts of patient and professional intercommunication skills while engaged in multiple patient scenarios in all lab practice activities. ADO 9**

**Associate Degree Outcomes Addressed in this Course (These must appear in course syllabus.)**

* **ADO 7**
* **ADO 9**

**Units/topics of Instruction**

* **Review Of Mechanics And Physiology Of Ventilation**
* **Introduction to Volume Control Ventilation.**
* **Gas Exchange, Oxygenation And Ventilation**
* **Introduction to Ventilator Management and Ventilator Initiation**
* **Monitoring The Ventilator Patient**
* **Basic Distending Pressure Therapy and Ventilator Discontinuance.**
* **Introduction to Pressure Control Ventilation**

**Instructional Techniques and Procedures**

* **Lecture**
* **Lab**

**Instructional Use of Computer or Other Technology**

* **Yes**

**Instructional Materials and Costs to Students**

* **$161**

**Skills and abilities students should bring to the course:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | a limited amount of material |  |  | basic, pre-algebraic problems |
| Able to read |  | an average amount of material | Able to compute | **X** | simple algebraic problems |
|  | **X** | an above average amount of material |  |  | higher order mathematical problems |
|  |  |  |  |  |  |
|  |  | relatively easy material |  | **X** | short compositions |
| Able to read |  | moderately difficult material | Able to write |  | medium length compositions |
|  | **X** | technical or sophisticated material |  |  | lengthy compositions |
|  |  |  |  |  |  |
|  | **X** | keyboard skills/familiar with computer |  |  |  |
| Able to use | **X** | computer application | Other necessary  |  |  |
|  technology | **X** | web navigation |  Abilities |  |  |
|  |  |  |  |  |  |

**The course is usually scheduled:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  Day: | **X** | Fall |  | Winter |  | Spring | Evening: |  |  Fall |  | Winter |  | Spring |

|  |  |  |
| --- | --- | --- |
| **Prepared by \_\_\_\_\_Ann Flint\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  | **Date \_\_11-22-2013\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Approved by Dept. Kristin Spencer** |  | **Date 11-25-13** |
| **Approved by Dean: Jeremy Frew** |  | **Date 11-26-13** |
| **Approved by Curr. Comm. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  | **Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

 **(Last names, please) Form Revised 12/4/00**