

BACHELOR OF SCIENCE RESPIRATORY THERAPY (BSRT)

BSRT 300 Critical Review of Healthcare (3.0 Units)

Research course in which students will learn and implement a strategic approach to identify credible medical research literature, analyze the research data, and author a review of the gathered material. Students will use medical journal citation formatting for drafting literature review papers with supporting citations of published research on each topic pertaining to healthcare research.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 301 Medical and Bioethics (3.0 Units)

This course offers an investigation and discussion of moral and ethical issues that can arise during critical illness and how practitioners navigate these issues. It also explores many of the controversial biomedical topics related to science and healthcare.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 302 Education and Teaching Strategies for Healthcare Professionals (3.0 Units)

Provides an analytical framework to teach adult learning theory and prepares the student to teach effectively in healthcare and classroom settings. Topics include learning styles, curriculum development, effective teaching techniques, and assessment of learning.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 303 Healthcare Leadership and Operations Man (3.0 Units)

Instruction of leadership and management theories for effective practices in the healthcare setting. The organizational structure of current healthcare models is discussed. Emphasis is placed on the development of skills in leadership, communication, time management, problem-solving, motivation, and other critical competencies. Specific attention is focused on the role of leadership, along with specific functions and operations, in a Healthcare Department. Using these skills, students will identify and apply strategic models to analyze problems, formulate solutions, and make sound decisions.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 304 Basic Research Methods and Statistics Fo (3.0 Units)

This course introduces the scientific method and basic statistics. The focus is on the development of a research question, statement of hypothesis, experimental design, data analysis using basic statistical tests, and presentation of data.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 305 Advanced Cardiopulmonary Pathophysiology (3.0 Units)

This course presents advanced concepts of cardiopulmonary pathophysiology at the physiological and molecular levels. Case studies will be used to dissect how molecular aberrations result in physiological changes that correlate to signs and symptoms of acute and chronic cardiopulmonary disorders.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 306 Neurophysiology of Sleep-Wake Cycle and (3.0 Units)

This course presents advanced concepts of the sleep-wake cycle and control of breathing at the physiological and molecular levels. Discussions will include how physical and molecular aberrations result in physiological changes that correlate to signs and symptoms of sleep-disordered breathing and other forms of neurologically-induced ventilatory problems.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 307 Advanced Cardiopulmonary Diagnostics (3.0 Units)

This course dives deeper into cardiopulmonary diagnostics. Advanced diagnostics will be introduced using case studies to present a review of signs and symptoms and their physiological implications, etiologies, diagnostic techniques that aid in diagnosis, and interventions.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 308 Advanced Pharmacology (3.0 Units)

This course provides advanced knowledge of pharmacological molecular mechanisms and modalities related to cardiopulmonary disorders and common critical care scenarios. Learned information is applied to real-life case scenarios to emphasize how advanced knowledge aids in applying therapeutics and interventions more effectively while considering possible negative outcomes.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 401 Capstone I (3.0 Units)

The course provides an opportunity for students to engage in high-level inquiry that focuses on an area of specialization within health care. This course will focus on the student exploring topics they are interested in learning more about with the goal of producing a project that demonstrates review, research, formulation, and plan for implementation. The goal of the capstone project is to bridge the gap between theory and practice to improve a component of the chosen profession.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 402 Capstone II (3.0 Units)

The course expands on Capstone I with an emphasis on the development of the capstone project outline. The goals, purpose, and feasibility of each student's chosen project will be discussed and open for peer review.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 403 Capstone III (3.0 Units)

The course expands on Capstone II with an emphasis on the implementation of the capstone project plan. Milestones for each student's chosen project will be open for peer review and discussed each week.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 404 Capstone IV (3.0 Units)

The course expands on Capstone III with an emphasis on the finalization of the capstone project. Weekly milestones of each student's chosen project will be discussed and open for peer review. Students will present the final capstone project as a written and oral presentation.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 405 Case Management I (3.0 Units)

This course focuses on a systematic physiological assessment and application to basic case management concepts. Case studies will be used to explore physical assessment to aid in the implementation of case management theories, evidence-based decision-making, and standards of care.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 406 Case Management II (3.0 Units)

This course expands on Case Management I with an emphasis on biological sampling, radiological imaging, and cardiopulmonary function testing and interpretation as they aid in implementing case management theories, evidence-based decision-making, and standards of care.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 407 Case Management III (3.0 Units)

This course expands on Case Management I and II with an emphasis on the stages of the case management process including screening, assessing, stratifying risk, planning, implementing, follow-up, transitioning, communication, and evaluation. The essential domains of case management knowledge discussed include care delivery methods; reimbursement methods; psychosocial concepts and support systems; rehabilitation strategies; ethical and legal standards; as well as quality outcomes, evaluation, and measurement. Case studies will be used to apply the case management domains to real-life situations.

Lecture Hours: 54.0

Transfer: Transfers to CSU only

BSRT 408 Case Management IV (3.0 Units)

This course expands on Case Management III with an emphasis on application. Students have the opportunity to shadow a case manager of their choice and bring their experience to weekly discussions. Weekly discussions will be used to reiterate the case study process as it applies to real-life scenarios.

Lecture Hours: 54.0

Transfer: Transfers to CSU only