

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Cardiorespiratory Sciences (CRS) is a multi-disciplined, multi-credentialed program preparing students in care, management, and life-support of individuals having deficiencies and abnormalities associated with the cardiopulmonary system. A successful graduate of this program will obtain credentials from a national laboratory credentialing agency, the American Heart Association, Cardiovascular Credentialing International, and the National Board for Respiratory Care.

The Cardiorespiratory Sciences Program provides a quality academic experience preparing Respiratory Care Practitioners and Cardiac Technicians. The graduate will possess the attitudes, skills, and knowledge required to think critically, communicate effectively, and provide self-direction while administering care.

The program emphasizes developing competencies that integrate protocols, Clinical Practice Guidelines, and critical pathways into an efficient cardiorespiratory care plan.

A limited entry program, students must attend a health programs orientation and meet with a health programs advisor for additional counseling prior to acceptance in the program. The Cardiorespiratory Sciences Program is accredited by The Commission on Accreditation for Respiratory Care (CoARC). The Commission on Accreditation for Respiratory Care, 1248 Harwood Road, Bedford, TX 76021-4244, (817) 283-2835 www.coarc.com

**STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:**

- Analyze data culminating in successful completion of the National Board for Respiratory Care's (NBRC) Certified Respiratory Therapist Self-Assessment Examination (SAE).
- Synthesize data culminating in successful completion of the NBRC's Written Registered Respiratory Therapist SAE.
- Appraise data culminating in successful completion of the NBRC's Clinical Simulation Examination SAE.
- Analyze data culminating in successful completion of the Certified Cardiographic Examination, administered by Cardiovascular Credentialing International, or their successor agency.

**GENERAL EDUCATION REQUIREMENTS (31 Credits):**

	CR	SEMESTER
<b>COMMUNICATIONS:</b> BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____
<b>ENGLISH:</b> ENG 100, 101, 102, 113, 114	3-5	_____
<b>HUMAN RELATIONS:</b> ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
<b>MATHEMATICS:</b> MATH 124 or above	3	_____
<b>SCIENCE:</b> BIOL 223, 224, 251	12	_____
<b>FINE ARTS/HUMANITIES/ SOCIAL SCIENCES:</b> AM, ANTH, ART, COM, DAN 101, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
<b>U.S. AND NEVADA CONSTITUTIONS:</b> PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

**SPECIAL PROGRAM REQUIREMENTS (56 Credits):**

	CR	SEMESTER
<b>CLS 151</b> Phlebotomy	2	_____
<b>CRS 111</b> Introductory Concepts of Cardiorespiratory Sciences	3	_____
<b>CRS 112</b> Introductory Concepts of Cardiorespiratory Equipment	1	_____
<b>CRS 115</b> Clinical Practicum I	4	_____

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	CR	SEMESTER
<b>CRS 121</b> Advanced Concepts of Cardiorespiratory Sciences	3	_____
<b>CRS 122</b> Advanced Concepts of Cardiorespiratory Equipment	1	_____
<b>CRS 123</b> Applied Cardiorespiratory Assessment	3	_____
<b>CRS 124</b> Cardiorespiratory Pharmacology	3	_____
<b>CRS 125</b> Clinical Practicum II	4	_____
<b>CRS 135</b> Clinical Practicum III	3	_____
<b>CRS 211</b> Neonatal and Pediatric Cardiorespiratory Care	3	_____
<b>CRS 212</b> Neonatal and Pediatric Cardiorespiratory Equipment	1	_____
<b>CRS 213</b> Cardiorespiratory Diagnostics	3	_____
<b>CRS 214</b> Cardiorespiratory Diagnostics Equipment	1	_____
<b>CRS 215</b> Clinical Practicum IV	4	_____
<b>CRS 221</b> Continuity of Cardiorespiratory Care	3	_____
<b>CRS 222</b> Seminar for Success	1	_____
<b>CRS 225</b> Clinical Practicum V	4	_____
<b>EGG 131</b> Technical Physics I	4	_____
<b>or</b>		
<b>PHYS 110</b> Conceptual Physics or above		
<b>HIT 117B</b> Medical Terminology I	1	_____
<b>HIT 165B</b> Pathophysiology	4	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

**NOTE:** Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree.

CARD-AAS

**87**  
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE

**Guided Pathway**  
**Associate of Applied Science (AAS) – Cardiorespiratory Sciences (CRS)**  
**Total Credits (87)**

<b>First Semester</b>	<b>Requirement</b>	<b>Credit Hours</b>	<b>Term</b>
BIOL 189		4	
COM 101	Communications	3	
Math 95	Math	3	
ENG 101	English	3	
HIT 117	Med Terminology	1	
	<b>TOTAL</b>	<b>14</b>	
<b>Second Semester</b>	<b>Requirement</b>	<b>Credit Hours</b>	<b>Term</b>
BIOL 223	A&P 2	4	
BIOL 251	Micro	4	
Math 124	College Algebra	3	
PHYS 110 or EGG 131	Physics	4	
	<b>TOTAL</b>	<b>15</b>	
<b>Third Semester- 1st CRS Semester</b>	<b>Fall</b>	<b>Credit Hours</b>	<b>Term</b>
CLS 151		2	
CRS 111	Into to CRS concept	3	
CRS 112	Intro to CRS equip.	1	
CRS 115	Clinical Practicum I	4	
BIOL 224	A&P 2	4	
	<b>TOTAL</b>	<b>14</b>	
<b>Fourth Semester- 2nd CRS Semester</b>	<b>Spring</b>	<b>Credit Hours</b>	<b>Term</b>
CRS 121	Advanced CRS concept	3	
CRS 122	Advanced CRS equip	1	
CRS123	Applied CRS assess.	3	
CRS 124	CRS Pharmacology	3	
CRS 125	Clinical Practicum II	4	
	<b>TOTAL</b>	<b>14</b>	
<b>Fifth Semester- 3rd CRS Semester</b>	<b>Summer</b>	<b>Credit Hours</b>	<b>Term</b>
CRS 135	Clinical Practicum III	3	
PSC 101	NV/ US History	4	
Fine arts/ Humanities/ Social Sciences		3	
	<b>TOTAL</b>	<b>10</b>	
<b>Sixth Semester- 4th CRS Semester</b>	<b>Fall</b>	<b>Credit Hours</b>	<b>Term</b>
CRS 211	Neo/ Peds CRS Care	3	
CRS 212	Neo/Peds CRS Equip	1	
CRS 213	CRS Diagnostic	3	
CRS 214	CRS Diagnostic Equip	1	
CRS 215	Clinical Practicum IV	4	
	<b>TOTAL</b>	<b>12</b>	
<b>Seventh Semester- 5th CRS Semester</b>	<b>Spring</b>	<b>Credit Hours</b>	<b>Term</b>
CRS 221	Continuity of CRS	3	
CRS 222	Seminar for Success	1	
CRS 225	Clinical Practicum V	4	
Human Relations		3	
	<b>TOTAL</b>	<b>11</b>	
	<b>Degree Total</b>	<b>87</b>	

\*\* Note – BIOL 189 although not included for the AAS degree is a prerequisite of BIOL 223 and BIOL 251 and must be completed prior to enrolling in those classes.

\*\* Note – Due to the high rigor of the CRS program, it is highly recommended that students complete as many general education requirements before applying to the program as possible.

\*\* Note – The CRS program courses build upon knowledge acquired in the general education classes. Courses should be taken in this order unless approved by the Program Director.

\*\* Note - All CRS courses, can only be taken once accepted to the CRS program, then must be taken in the order indicated.

Upon successful completion of the CRS Program and graduation from CSN, graduates will be able to apply and sit for the NBRC National Licensure Exam. Passing of this exam is required in order for a CRS to practice in the state of Nevada, as well as most other states.

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