



## 2007-2008 Career Planning Guide

# CARDIOVASCULAR TECHNOLOGY, INVASIVE

Spokane Community College

**Spokane Community College**  
1810 North Greene Street  
Spokane, Washington 99217-5399  
[www.scc.spokane.edu](http://www.scc.spokane.edu)

**Completion Award:** A.A.S. Degree

**Start:** Fall

### Tuition and Fees

**Approximate Quarterly Cost:** (subject to change without notice)

Books (estimate, seven quarters)	\$	1000
Supplies and Equipment (estimate, seven quarters)	\$	150
Misc. Fees	\$	435

\* Insurance \$35; National Certification Exam \$300; Physical Exam \$100

**PROGRAM WEBSITE:** <http://www.scc.spokane.edu/?alliedh>

## Program Description

The invasive cardiovascular technologist is a health care professional who, through the use of specific high-technology equipment and at the direction of a qualified physician, performs procedures on patients leading to the diagnosis and treatment of congenital and acquired heart disease, and peripheral vascular disease.

As a member of the cardiac catheterization team, the cardiovascular technologist is a surgical scrub assistant, monitors the patient's condition and operates other "CATH Lab." equipment.

The most important "CATH Lab" studies are coronary angiography, percutaneous coronary intervention (where stents, balloons, plaque removal devices, and other treatments to restore blood flow are deployed), right heart catheterization (where blood flow measurements are made), electrophysiology (where irregular heartbeats are created, studied and treated) and pacemaker implantations.

The invasive cardiovascular technologist also works with physicians during critical times during heart attacks by restoring blood flow to diseased areas of the heart. They assist with percutaneous revascularization, give clot-dissolving drugs, and operate cardiac assist pumps.

The first year of the cardiovascular program teaches basic sciences and cardiology and is combined with the noninvasive cardiovascular program. In the second year, the invasive students concentrate on the technical duties of a cardiac catheterization technologist and spend time working in local hospital cardiac laboratories.

Upon completion of the didactic training (six quarters), the student selects an out-of-town medical center where he/she will complete the final quarter of clinical internship. Students may take the CCI National Registry Exam upon graduation. The program is the only CAAHEP approved invasive technology program in the northwestern United States.

## Career Opportunities

Continued technological advances in cardiac diagnosis and therapy have created steady demands for trained technologists with few training programs available. Placement of graduates in good paying jobs approaches 100 percent. Positions are available in hospitals and medical centers and are plentiful outside of the Spokane area.

**POTENTIAL POSITIONS INCLUDE:** cardiovascular technologist, hemodynamic monitor technologist, cardiac catheterization technologist, electrophysiology technologist

## Suggested Course of Study 2007-2008

Consult Adviser/Counselor for Program Planning and Selection of Electives

### CARDIOVASCULAR TECHNOLOGY, INVASIVE

A.A.S. Degree: SCC

#### Admission Prerequisite/Requirements:

- High school diploma or GED certificate
- MATH 99
- CHEM 161
- BIOL 101
- Appropriate scores in one of the following: ASSET or Compass

#### Admissions Recommendations:

- Computer skills
- Active email account

A.A.S. Degree				A.A.S. Degree (continued)			
<b>FIRST YEAR</b>				<b>SECOND YEAR</b>			
<b>First Quarter</b>			<b>Credits</b>	<b>Fifth Quarter</b>			<b>Credits</b>
A-P	242	Human Anatomy and Physiology	5	ICT	214	Cardiac Catheterization II	<u>15</u>
CHEM	120	Organic and Biochemistry for the Health Sciences	5				15
ICT	114	Cardiovascular I	4	<b>Sixth Quarter</b>			
NCT	113	Electrophysiology I	<u>4</u>	ICT	224	Cardiac Catheterization III	<u>15</u>
			18				15
<b>Second Quarter</b>				<b>Seventh Quarter</b>			
A-P	243	Human Anatomy and Physiology	5	ICT	234	Cardiac Catheterization IV	<u>13</u>
ICT	124	Cardiovascular II	4				13
NCT	123	Electrophysiology II	4	107 credits are required for an A.A.S. degree.			
PHYS	120	Fundamentals of Medical Physics	<u>5</u>	A 2.0 grade must be maintained quarterly in each course before proceeding to the next quarter.			
			18	Students may repeat an invasive cardiovascular course once, but it must be repeated within two years.			
<b>Third Quarter</b>				<i><b>Disclaimer:</b> The college cannot guarantee courses will be offered in the quarters indicated. During the period this guide is in circulation, there may be curriculum revisions and program changes. Students are responsible for consulting the appropriate academic unit or adviser for more current and specific information. The information in this guide is subject to change and does not constitute an agreement between the college and the student.</i>			
ICT	134	Invasive Cardiovascular Fundamentals	5				
ICT	138	Cardiovascular Physiology	3				
NCT	133	Noninvasive Cardiovascular Fundamentals	5				
PHYS	121	Medical Physics II	<u>4</u>				
		Total	17				
<b>Fourth Quarter</b>							
ICT	144	Cardiac Catheterization I	<u>11</u>				
			11				