

2016-17 Program Assessment Report

Vascular Technology B.S.

Mission, Objectives & Learning Outcomes

Oregon Tech Mission

Oregon Institute of Technology, an Oregon public university, offers innovative and rigorous applied degree programs in the areas of engineering, engineering technologies, health technologies, management, and the arts and sciences. To foster student and graduate success, the university provides an intimate, hands-on learning environment, focusing on application of theory to practice. Oregon Tech offers statewide educational opportunities for the emerging needs of Oregonians and provides information and technical expertise to state, national and international constituencies.

Core Theme 1: Applied Degree Programs

Oregon Tech offers innovative and rigorous applied degree programs. The teaching and learning model at Oregon Tech prepares students to apply the knowledge gained in the classroom to the workplace.

Core Theme 2: Student and Graduate Success

Oregon Tech fosters student and graduate success by providing an intimate, hands-on learning environment, which focuses on application of theory to practice. The teaching and support services (academic development).

Core Theme 3: Statewide Educational Opportunities

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Program Mission

To prepare competent entry-level vascular sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains

Program Educational Objectives

- x The program prepares students to utilize diagnostic techniques, judgment and good decision making to provide patient services.
- x The program communicates the importance of becoming credentialed in the profession of vascular technology.
- x The program prepares students who think critically, communicate effectively and exemplify professional ethics.
- x The program conveys the importance of becoming lifelong learners and responsible citizens.

Program Faculty Review

Program Student Learning Outcomes and Objectives were reviewed by program faculty during Fall Convocation Program Assessment Meeting.

The Vascular Technology faculty meet formally each year according to the annual convocation schedule and multiple times during the academic year to discuss both quantitative and qualitative issues to maintain the highest value assessment activities to be engaged. Also discussed at last Fall's convocation meeting was how to integrate the survey based assessment required by our programmatic accreditation through the Joint Review Committee of Diagnostic Medical Sonography with program student learning outcomes.

Showcase Learning Opportunities

Met to view the previous 2015-2016 assessment conclusions and discussed how to integrate suggestions from industry to better train students to elongate vessels, how to better "use" the scanning probe and to better prepare themselves for ergonomic positioning.

Program History & Vision

Program History

The Vascular Technology Program officially began in 1992 and is one of the five current programs Medical Imaging programs at Oregon Institute of Technology. Enrollment trends from 2002-2016 have varied from 50 to 89 students per year in the program. By fall term of 2016, there were 50 students enrolled in the program. For the class of 2016, retention was 70.0% and attrition was 30.0%.

Meeting with Advisory Board

Program faculty held a meeting with their Advisory Board during the academic year.

[Attachment 1_Advisory_Board_2017_Meeting_Minutes](#)

Advisory Board Review

The Advisory Board reviewed the Program Mission and Objectives during academic year.

The Vascular Technology Program Advisory Board met on May 23, 2017.

- o 3.5% or 20 failures in MIT 232, Sonographic Physics & Instrumentation II
- o 3.3% or 19 failures in VAS246, Peripheral Arterial Disease
- o 2.6% or 15 failures in VAS420, Externship.
- o 1.7% or 10 failures in VAS365. Abdominal Disease
- o 1.0% or 6 failures in CHE210, Pharmacology
- o 1.2% or 7 failures in BIO 220, Cardiovascular Physiology.
- o 0.9% or 5 failures in PHY217, General Physics.
- o 0.9% or 5 failures in VAS245, Peripheral Venous Disease
- o 0.7% or 4 failures in VAS214, Vascular Anatomy
- o 0.7% or 4 failures in BIO 346, Pathophysiology I
- o 0.5% or 3 failures in VAS225, Patient Management

References

Program Assessment Coordinator Christopher Caster, Associate Professor, Medical Imaging Technology

Office of Academic Excellence

**Oregon Tech
Vascular Technology Program
Advisory Board Meeting
5/23/2017**

Committee Members:

Dr. Misty Humphries	Medical Director not present but has reviewed minutes
Sarah Coello	Graduate Representative - present
Brandon Butler	Student Representative - present
Colton Wilson	Student Representative - present
Chris Caster	Vascular Technology Program Director - present
Janette Isaacson	Vascular Technology Online Program Director - present
Joanne S. Van Kampen	Professional Career Consultant - present
Jason Card	Local Sonography Business Professional

sis. We are in high hopes our enrollment will increase significantly in the near future. Our Junior students are creating a recruiting video from the standpoint of what they would have like to have seen when they were considering a career in vascular technology. Once complete, this video will be included as mandatory viewing in both the online and on-campus MIT 103 courses.

Discussion:

Chris commented on the fact that a survey was conducted on campus and the number one reason students gave for deciding on the career they were going into is that it was what their friend were going into.

Tanya commented on the fact that students coming out of high school and are very social especially with the importance they place on social media.

JoAnne asked if students are mostly seeking vascular position in the Northwest or are they settling for positions further East.

Chris commented on student reflection that Northwest jobs and especially Oregon jobs have been somewhat saturated by our graduates.

Jason suggested we tap into those former graduates from the Vascular program who
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Chris had commented that he had spoken with Will Farmer in Burlington, VT and made available for use in the MIT 103 course would help with recruitment.

Jason also commented on how Oregon Tech has been rated 9th out of the 10 best technical schools in America and we should include this fact as a part of our marketing.

Brandon suggested branching out of state to hospitals who recognize our program as being more specialized and can identify potential students who would be sponsored and be able to come right back to that hospital for extern. Brandon also asked if somehow the WUI could be extended to more states?

Tanya commented that Oregon Tech is really limited in being able to extend WUI to other states. Tanya also commented that hospitals could provide better sponsorship in tuition dollars for those students they would send to ou2 10.9.0M0ho would be sponsored

high school student career fairs and/or community college students. Tanya even

Affiliation agreements and on-boarding contracts for extern continue to be challenging and require more and more of our time. We have recently discovered our own Student Health cannot relay student documentation of immunization on to our affiliates as the information could be fraudulent. We are therefore seeking a company known as Trajecsys who is willing to gather the evidence of immunization from students and then provide it as verification of immunization to our affiliates who would require it. This is another expense the student must pay for, but we see no alternative.

Discussion:

JoAnn commented that almost every organization she knows of now requires a criminal



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10 Year History By Major and Degree Type
As of September 5, 2016

2006-07 2007-08 2008-09



	b	b	b	b	b	b	b
% among those reporting outcomes	87.6	67	49	0.8	95.1	\$ 56,000
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Oregon Institute of Technology
VAS 420 Extern Winter Term 2017 Case Study
Assessment Activity PSLO #1/ESLO Communication - Written, collection date 5/1/17

	<i>Purpose & Audience Content</i>	<i>Focus & Organization organized ideas -</i>	<i>Support & Documentation</i>	<i>Style & Conventions language & grammar</i>	<i>Visual Communication</i>	<i>Justification</i>
Student 1	4	3	4	3	3	3
Student 2	4	4	3	4	4	4
Student 3	4	4	4	4	4	4
Student 4	4	4	4	4	3	4
Student 5	4	4	4	4	4	4
Student 6	4	4	4	4	4	4
Student 7	4	4	4	4	4	4
Student 8	4	4	3	3	3	4
Student 9	4	4	4	4	4	4
Student 10	4	4	4	3	3	4
Student 11	4	3	4	4	4	4
Student 12	4	3	4	3	4	4
Student 13	4	3	4	4	4	3
Student 14	3	3	2	3	4	

Oregon Institute of Technology
VAS 420 Extern 2016-2017 Academic Year
Assessment Activity PSLO #3, calculation date 5/2/17

Student	Maintains Clinical Records	Oral and Written Summary of Clinical Findings	Appropriate use of medical terminology, abbr. etc.	Educates Patients and other Health Care Providers
Student 1	95	95	95	95
Student 2	85	85	85	85
Student 3	100	100	100	100
Student 4	85	85	85	85
Student 5	95	80	90	85
Student 6	100	95	100	100
Student 7	90	N/A	90	90
Student 8	95	95	90	95
Student 9	95	95	90	90
Student 10	90	90	90	85
Student 11	80	80	80	80
Student 12	100	100	100	100
Student 13	90	90	90	90
Student 14	100	100	100	100
Student 15	90	90	90	90
Student 16	95	85	90	100
Student 17	95	90	90	95
% with 85% correct or higher	94%	88%	94%	94%

Student

Student rating of how OIT

PSLO # 2, VAS 420 from 2017 Extern Competency Evaluations

Indirect Activity for PSLO #3

Collection Date: 1/12/17

Course where assessment took place: VAS 420 (2015 - 2016) Extern Exit Survey

Student	Student rating of how OIT prepared them for outcome #3 (1-4 scale)	Student rating of how their extern site prepared them for outcome #3. (1-4 scale)
Student 1	4	4
Student 2	4	4
Student 3	4	4
Student 4	4	4
Student 5	3	3
Student 6	4	4
Student 7	3	4
Student 8	4	4
Student 9	4	4
Student 10	3	3
Student 11	3	4
Student 12	3	4
Student 13	4	4
Student 14	4	4
Student 15	4	4
Student 16	4	4
Student 17	4	4
% with 3 rating or higher	100%	100.00%

MIT 225 Assessment for PSLO #3 Fall Term 2016

Criteria 1 - Ergonomics and Technologist/Patient Safety

Criteria 2 - Knowledge of Communication Skills

Criteria 3 - Infection Control

Criteria 4 - Sonographer Professionalism and Ethics

Student	Criteria 1 - exam questions				Criteria 2 - exam questions				Criteria 3 - exam questions				Criteria 4 - exam questions			
	19	51	65	Total	12	47	58	Total	1	27	49	Total	22	28	60	Total
Student 1	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 2	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 3	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 4	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 5	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 6	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 7	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 8	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 9	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 10	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 11	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 12	1	1	1	3	1	1	1	3	0	1	1	2	1	1	1	3
Student 13	1	1	1	3	1	1	1	3	1	1	0	2	1	1	1	3
Student 14	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 15	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 16	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
Student 17	1	1	1	3	1	1	1	3	1	1	1	3	1	1	0	2
Student 18	1	1	1	3	1	1	1	3	1	1	1	3	1	1	1	3
	18	18	18	54	18	18	18	54	17	18	17	52	18	18	17	53
	100.0%															
% of Students with 2 or more correct					100.0%											
% of Students with 2 or more correct									100.0%							
% of Students with 2 or more correct													100.0%			

Oregon Institute of Technology
VAS 420 Extern 2016-2017 Academic Year

Student	Knowledge of Universal Precautions	Anticipates/ responds to patient needs	Knowledge of HIPAA Policies	Performs Within the Ultrasound Scope of Practice
Student 1	95	95	95	100
Student 2	90	90	90	90
Student 3	100	100	100	100
Student 4	100	85	100	100
Student 5	95	95	95	100
Student 6	100	100	100	100
Student 7	90	90	90	90
Student 8	95	90	95	90
Student 9	95	90	90	95
Student 10	90	90	90	95
Student 11	85	80	80	80
Student 12	100	100	100	100
Student 13	90	90	90	90
Student 14	100	100	100	100
Student 15	95	95	95	95
Student 16	95	95	100	100
Student 17	95	95	100	95
% with 90% correct or higher	94%	88%	94%	94%