



2016-17 Program Assessment Report

Civil Engineering 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 constituents.

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 facilitate students' personal and academic development.

Core Theme 3: Statewide Educational Opportunities

Oregon Tech offers statewide educational opportunities for the emerging needs of Oregon's citizens. To accomplish this, Oregon Tech provides innovative and rigorous applied degree programs to students across the state of Oregon, including high-school programs, online degree programs, and partnership agreements with community colleges and universities.

Core Theme 4: Public Service

Oregon Tech will share information and technical expertise to state, national, and international constituents.

Program Alignment to Oregon Tech Mission and Core Themes

The program mission of preparing students for professional practice is aligned with the University's emphasis on applied degree programs and application of knowledge in the workplace (Core Theme 1). While not explicitly described in the program mission, the emphasis on hands-on learning environments (Core Theme 2) is a cornerstone of the civil engineering program with a significant number of lab-based courses.

Program Mission

The mission of the Bachelor of Science in Civil Engineering (BSCE) program at Oregon Institute of Technology is to prepare students for professional practice. To be prepared to practice as professionals, engineers must be able to act responsibly and ethically, understand their limits and the limits of the tools they use, communicate effectively, work well in teams, and, amid the changing landscape of the field of civil engineering, be able to pursue graduate level education.

Program Educational Objectives

- practice in civil engineering or a related field
- pursue advanced or continuing education in civil engineering or a related field
- act as responsible, effective, and ethical citizens
- communicate effectively
- collaborate effectively

Program Faculty Review

Faculty reviewed outcomes September 2016 at the convocation retreat. It was decided that the department would reflect on our prior programmatic assessment during the 2016-2017 academic year given our successful ABET visit last year and looming changes to ABET outcomes a-k. Adjustments will likely be made when ABET makes their changes.

Showcase Learning Opportunities

A multi-disciplinary freshman course sequence introduces students to the disciplines of civil, electrical, and renewable energy engineering in the first term and uses a design-build-test multi-disciplinary team project to encourage effective communication and team participation in support of a full-scale real-world design project.

A co-taught course called Oregon Bridges was piloted in the summer and fall of 2016 to eight students. The course had a field component, which consisted of a 9-day tour of over 50 Oregon bridges along the coast and in the Portland area. A historian and a civil engineering faculty member engaged students in discussions of Oregon and transportation history, professional engineering practice, and bridge construction and preservation technology. The class visited with bridge historians, preservation and inspection staff at ODOT, and bridge construction experts during the field component. The primary deliverable for students was a portfolio of bridges visited on the trip and reflection on the evolution of bridges and designs resulting from details of time and place.

The capstone design project utilized a local design problem involving a confluence of irrigation water delivery, rail, road, and utilities. Students designed a replacement and construction phasing for the C-flume, an aging raised aqueduct in the Klamath Basin.

The department has a strong set of extracurricular opportunities driven by our active student chapters:

- The American Society of Civil Engineers - Associated General Contractors (ASCE-AGC) - Participation in ASCE and AGC leadership meetings, conferences, and competitions; plans to host the ASCE Pacific Northwest Student Conference in April 2018
- The Institute of Transportation Engineers (ITE) - Traffic Bowl, Transportation Research Board trip to Washington, D.C.
- Engineers Without Borders (EWB) - Water delivery project in Tanzania, Africa

Program History & Vision

Program History

The Civil Engineering Department at Oregon Institute of Technology administers a Bachelor of Science in Civil Engineering (BSCE) degree. This degree is accredited by the Engineering Accreditation Commission of ABET, Inc.

Meeting with Advisory Board

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

Advisory Board Review

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

The department's industrial advisory council met May 26, 2017 and reviewed the mission and objectives. No changes were made.

Advisory Board Meeting Minutes

[Attachment 1_IAC_5_26_17](#)

Program Enrollment

Program enrollment has remained relatively steady at 110-120 students. Enrollment in 2012 was high given a particularly large junior cohort. Enrollment in 2014 was lower likely due to turnover in the admissions office and the resulting fewer recruiting events and mailings. The current enrollment trend is positive, but enrollments are likely remain fairly steady at around 115.

[Attachment 2_Enrollment_5_Year_History_by_Major](#)

Program Graduates

Program graduation numbers have fluctuated between 14 and 29 over the past 10 years. Admission rates, retention rates, and stop-out reporting are all conducted in an attempt to identify sources of students stopping out. While this is inherently challenging to predict or control, the department continues to make an effort to staff recruiting events and retain freshmen and transfer students through quality teaching and classroom engagement.

[Attachment 3_Graduates_10_Year_History_by_Major](#)

Employment Rates and Salaries

The median salary for 2014-2016 graduates was \$51,540 with a high salary of \$70,176 for an MSCE graduate and a low of \$43,000. Placements ranged from small, local engineering design firms to state departments of transportation to national and international design and construction firms in all sub disciplines of civil engineering.

[Attachment 4_Grad_Data_First_Destination_3_Year_History_by_Major](#)

Pass Rates on Board and Licensure Exam

The pass rate for the 2016-2017 cohort was 83% (18/21 students passing), well above the civil engineering national average of 68% (<https://nces.org/engineering/fe/>).

Results of Board or Licensure Exam

N/A

Other Program Assessment Data

N/A

Desired Data

N/A

Closing the Loop

Describe any actions taken and re-assessment done during this academic year in response to assessment findings from prior academic years.

Program Faculty implemented actions during the academic year based on assessment findings from previous assessment cycles.

Changes Implemented

N/A

Assessment Findings

N/A

Program Student Learning Outcomes Assessment Cycle

PROGRAM STUDENT LEARNING OUTCOMES	2016-17	2017-18	2018-19
3-Year Cycle			
Civil Engineering B.S. Degree Completion			
OIT-BCE 2016-17.a An ability to apply knowledge of mathematics, science, and engineering.			
OIT-BCE 2016-17.b An ability to design and conduct experiments, as well as to analyze and interpret data.			
OIT-BCE 2016-17.c An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.			
OIT-BCE 2016-17.d An ability to function on multi-disciplinary teams.			
OIT-BCE 2016-17.e An ability to identify, formulate, and solve engineering problems.			
OIT-BCE 2016-17.f An understanding of professional and ethical responsibility as well as the importance of professional licensure.			
OIT-BCE 2016-17.g An ability to communicate effectively.			

OIT-BCE 2016-17.h The broad education necessary to understand the impact of engineering solutions in a global and societal context.			
OIT-BCE 2016-17.i A recognition of the need for, and an ability to engage in life-long learning.			
OIT-BCE 2016-17.j A knowledge of contemporary issues.			
OIT-BCE 2016-17.k An ability to use the techniques, skill, and modern engineering tools necessary for engineering practice.			
OIT-BCE 2016-17.l An ability to explain basic concepts in management, business, public policy, and leadership.			
OIT-BCE 2016-17.m An ability to evaluate concepts and ideas from alternative perspectives.			

Assessment Map & Measure

**F – Foundation – introduction of the learning outcome, typically at the lower-division level,
P – Practicing – reinforcement and elaboration of the learning outcome, or
C – Capstone – demonstration of the learning outcome at the target level for the degree**

For each outcome, programs should identify at least 2 direct measures (student work that provides evidence of their knowledge and skills), and 1 indirect measure (student self-assessment of their knowledge and skills) for each outcome.

For every program, data from the Student Exit Survey will be an indirect measure at the capstone level.

N/A

Analysis of Results

N/A

References

Program Assessment Coordinator: Charles C.J. Riley, Associate Professor, Civil Engineering

Office of Academic Excellence

Civil Engineering Industrial Advisory Council May 26, 2017 Meeting Minutes

Attendees: Sean St. Clair, CJ Riley, Erin Cox, David Thaemert, Roger Lindgren, DeLanie Cutsforth, Mark Willrett, Neal Spoon, Amanda Warner Thorpe, Scott Beaird, Anders Rasmussen
Students: Jordan Preston, Noah Nieman, Ryan Brooks, Elizabeth Sheehy, Daniel Iwicki

Brian Leach Design Resource Laboratory

- Want to recognize Brian Leach/legacy
- Open computation and work space for students
- This new space will be brought in with the new Cornett renovation
- Concept and floor plans have been drawn up
- Need some outside funding, great opportunity for matching funds

Faculty Search

- 2 year long search
- Brought 4 candidates to campus again this year, large candidate pool
- Erin Cox has agreed to join full time
- Erin is passionate about teaching and brings unique experiences
- Also hopes to pursue PhD at PSU

State of the University

- Good year in terms of accreditation
- ETM is hiring 13 new faculty, 4 are replacement positions, 9 are new positions
- Robust growth in both ETM/HAS
- \$129,000 was allocated to ETM for equipment/update grants
- Executive staff transition has been significant, new president, new provost, hopefully new dean to follow

Update on Students

- Enrollment
 - As of Fall 2016, 115 CE students, upward trend. 9 Graduate students
 - Retaining students for a fifth year.
 - Nationally, CE degrees are on the decline
- Scholarships
 - Gwen Jones and Jordan Preston won WTS. Gwen won international scholarship.
 - NITC awarded Sam Lozano, Jordan Preston and Jason Millar scholarships, Kevin Baker and Jordan Preston also received other scholarships.
- Faculty and student awards
 - Ryan Kelly won Pride of OIT
 - Jason Millar won Outstanding Student
 - Sam Lozano won a Tech Award.

- 3 out of 8 awards going to CE students.
- Placement of Graduates
 - Placement rate is great
 - High quality of jobs
 - Of students who completed survey 100% had job placement
- Graduate Program
 - 4 current seniors intend to complete master's program
- Student Tours
 - NITC funded a multitude of trips
 - Albuquerque, San Francisco, Oregon Bridges Class/Tour, Washington DC, Los Angeles, Boise, San Diego

Cornett Hall Remodel

- Original concept was started 3 years ago
- Phase 1 starting June 19th
- Had to do a lot of hatching due to budget concerns
- Every lab will have its own separate access
- Engineering building has moved all over campus
- Needs approval by the state

Senior Project

- Different this year
- C-flume project
- Four groups of students, independent of each other
- The firm already had data collected, so students came up with solutions
- Got a lot of local press
- Student groups all came up with relatively same solution

Faculty and Council Member Updates

- Roger co-authored recent project, successful. Leading multiple student chapter activities. Proposal approved, Matthew and CJ has proposals pending
- CJ has 40K education grant that incorporated iPod accelerometers to look at bridge dynamics in the field. Was given 74K to continue that work, proposal is to continue that work further and include video.
- Matthew has a small NITC grant to evaluate ash. Research fine aggregate that creates a firm and stable surface. Also got tenure!
- Anders moved to a new office and got approve to hire intern
- Delanie is currently lead hydraulic engineer in the region and is mentoring
- Erin was hired full time and taking PE exam in the fall
- Sean hadn't been able to dive into research as intended. Been travelling at least once a month for various roles. Program chair for CE division with ASEE. On national board of directors for ASCE. Zone 4 chair, western region, FE design committee, NCEES committee.

- David is finishing first year as faculty senate president. Was on the presidential search committee and taking on another year with faculty senate. EWB is returning to Tanzania.
- Scott has hired two graduates which are majority female
- Amanda got her masters and moved to Portland and got promoted.

EWB, ITE, ASCE/AGC, EHS

- EHS submitted TBP proposal, second oldest honor society in US
 - Recommended accepted without condition
 - Initiation will be a big to-do
- ASCE/AGC built pedestrian bridge with Lost River, building bunkbeds for gospel mission.
 - Steel bridge got 6th out of 16
 - Concrete canoe got 11th out of 15
 - OIT is hosting next year
- EWB has started soil samples and water diversion project in Tanzania
 - Will provide water to 20,000 people.
- ITE has 27 active members, steady increase and lots of travel

The following data represents majors declared by student as of Fall 4th week. Students with multiple/dual majors have been reported under each major in which they enrolled; therefore the student headcount will be duplicated. A small number of students that declared a third major have now been included in this report. Data reported is combined for all levels and all locations. Some programs may have had name changes such as CLS and have been reported as they were (historically).

Description	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	5 Year Difference	5 Year % Change
ABA Course Series	0	0	3	0	0	0	-
Accounting Certificate	0	0	0	0	1	1	-
Allied Health	0	0	0	0	3	3	-
Allied Health Management	11	5	3	2	1	-10	-90.9%
Applied Behavior Analysis	0	0	0	10	17	17	-
Applied Mathematics	41	38	47	42	33	-8	-19.5%
Applied Psychology	146	149	122	96	110	-36	-24.7%
Automat, Robot, & Cntrl Engr	0	0	0	0	1	1	-
Biology	15	8	1	1	0	-15	-100.0%
Biology-Health Sciences	136	150	150	138	151	15	11.0%
Civil Engineering	127	121	110	120	118	-9	-7.1%
Clinical Lab Science-Earlyadm	6	10	35	22	0	-6	-100.0%
Clinical Laboratory Science	62	85	94	95	2	-60	-96.8%
Communication Studies	55	42	39	47	40	-15	-27.3%
Computer Engineering Tech	82	82	81	86	63	-19	-23.2%
Dental Hygiene	226	240	211	221	202	-24	-10.6%
Diagnostic Medical Sonography	86	104	95	102	112	26	30.2%
Dispute Resolution Certificate	1	1	2	4	2	1	100.0%
Echocardiography	121	119	123	122	128	7	5.8%
Electrical Engineering	76	120	146	164	197	121	159.2%
Electronics Engineering Tech	67	58	51	37	32	-35	-52.2%
Embedded Systems Eng Tech	24	25	32	35	57	33	137.5%
Emergency Medical Services Mgt	0	0	17	20	34	34	-
EMT - Paramedic	29	30	29	28	28	-1	-3.4%
Environmental Sciences	49	49	51	48	42	-7	-14.3%
General Studies	495	736	632	1,031	1,414	919	185.7%
Geomatics	1	0	0	0	0	-1	-100.0%
Geomatics-option in GIS	13	14	10	10	7	-6	-46.2%
Geomatics-option in Surveying	49	39	26	31	30	-19	-38.8%
Health Care Mgmt-Admin Mgmt	0	10	14	19	18	18	-
Health Care Mgmt-Clinical Mgmt	0	4	10	11	25	25	-
Health Care Mgmt-Rad Science	0	3	6	12	12	12	-
Health Informatics	0	0	0	20	38	38	-
Health Sciences	1	1	0	1	2	1	100.0%
Information Technology	0	0	0	56	114	114	-
IT Accounting Option	8	4	2	1	1	-7	-87.5%
IT Applications Dev Opt	91	75	71	48	20	-71	-78.0%
IT Bus/Systems Analysis Opt	58	59	69	51	28	-30	-51.7%
IT Health Informatics Opt	54	68	59	32	17	-37	-68.5%
Magnetic Resonance Imagng Spec	0	0	0	0	4	4	-
Manufacturing Engineering Tech	129	99	109	107	101	-28	-21.7%
Marriage and Family Therapy	0	0	0	0	10	10	-
Mechanical Engineering	208	303	331	323	354	146	70.2%
Mechanical Engineering Tech	145	112	121	121	104	-41	-28.3%
Medical Lab Science-Earlyadm	0	0	0	0	17	17	-
Medical Laboratory Science	0	0	0	0	86	86	-
Mgmt Info Sys/Mgmt Acc Option	1	0	0	0	0	-1	-100.0%
Mgmt/Accounting Option	32	38	35	32	19	-13	-40.6%
Mgmt/Marketing Option	34	34	36	34	37	3	8.8%
Mgmt/Small Bus Mgmt Option	54	43	38	37	33	-21	-38.9%
MIT Applicant	0	0	1	2	0	0	-
Nuclear Medicine Technology	47	51	48	48	49	2	4.3%
Nursing	50	49	52	61	69	19	38.0%
Operations Management	61	66	65	69	70	9	14.8%
Optical Engineering	0	0	3	3	3	3	-
Picture Archive/Comm Sys Spec	0	0	1	2	3	3	-
Polysomnographic Technology	19	13	6	12	5	-14	-73.7%
Population Health Management	0	0	3	24	31	31	-
Pre-Clinical Lab Science	0	8	1	20	2	2	-
Pre-Dental Hygiene	62	65	35	37	48	-14	-22.6%
Pre-Medical Imaging Tech	273	287	253	237	226	-47	-17.2%
Pre-Medical Lab Science	0	0	0	0	27	27	-
Pre-Nursing	56	60	53	69	78	22	39.3%
Pre-Paramedic Education	0	3	3	7	0	0	-
Pre-Renewable Energy Eng	111	0	0	0	0	-111	-100.0%
Pre-Respiratory Care	11	12	8	11	9	-2	-18.2%
Radiologic Science	164	163	154	160	152	-12	-7.3%
Renewable Energy Engineering	110	206	203	180	166	56	50.9%
Respiratory Care	85	84	88	103	117	32	37.6%
Sleep Health-Polysom Tech Opt	0	0	4	6	17	17	-
Software Engineering Tech	260	268	289	309	285	25	9.6%
Spec in Entrepreneur/Small Bus	0	0	0	1	2	2	-
Specialization in Accounting	0	0	0	2	2	2	-
Specialization in Marketing	0	0	1	1	1	1	-
Specialization Travel/Tourism	0	1	0	0	0	0	-
System Engr & Technical Mgmt	0	0	2	3	0	0	-
Technology and Management	16	30	43	46	46	30	187.5%
Vascular Technology	88	95	80	93	98	10	11.4%
Total (Duplicated)	4,146	4,539	4,407	4,923	5,371	1,225	29.5%
Total (Unduplicated)	4,001	4,414	4,273	4,786	5,232	1,231	30.8%

Attachment 3_Graduates_10_Year_History_by_Major



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

Specializations

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Picture Archive/Comm Sys Spec	-	-	-	-	-	-	4	4	3	-
Specialization in Accounting	-	-	-	-	-	-	-	1	-	-
Specialization in Marketing	-	-	-	-	-	-	-	2	-	-
Total	0	0	0	0	0	0	4	7	3	0

Certificates

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Accounting Certificate	-	-	-	-	-	-	-	-	-	-
Dispute Resolution Certificate	1	2	1	2	4	1	6	11	1	2
Marketing Certificate	-	-	-	-	-	-	-	-	-	-
Polysomnographic Technology	-	-	4	14	13	11	8	6	3	9
Total	1	2	5	16	17	12	14	17	4	11

Associates

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Associate of Arts	13	8	2	5	-	1	-	-	1	1
Computer Engineering Tech	7	5	3	2	3	-	5	7	6	6
Dental Hygiene	25	26	22	25	18	27	18	23	21	9
Electronics Engineering Tech	3	1	2	1	-	-	-	-	-	-
EMT - Paramedic	19	21	22	25	27	17	28	26	26	29
Office Systems Technology	-	2	2	-	-	-	-	-	-	-
Polysomnographic Technology	-	-	1	2	3	5	6	2	4	-
Respiratory Care	23	16	15	17	-	-	-	-	-	-
Sleep Health-Polysom Tech Opt	-	-	-	-	-	-	-	-	-	3
Software Engineering Tech	7	2	3	2	2	-	-	2	9	2
Total	97	81	72	79	53	50	57	60	67	50

Bachelors

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Allied Health Management	-	-	-	1	2	4	3	2	1	-
Applied Environmental Science	1	-	-	-	-	-	-	-	-	-
Applied Mathematics	-	-	7	1	5	4	7	4	4	5
Applied Psychology	46	42	37	30	36	38	30	40	37	31
Biology	10	6	16	14	11	11	3	4	1	2
Biology-Health Sciences	-	-	-	-	-	-	10	14	20	18
Civil Engineering	23	23	29	28	20	14	23	17	15	25
Clinical Laboratory Science	23	24	24	22	22	35	27	34	49	46
Communication Studies	13	13	9	10	13	8	19	13	4	8
Computer Engineering Tech	15	7	14	8	13	3	4	3	3	3
Dental Hygiene	35	38	45	55	49	54	51	76	62	65
Diagnostic Medical Sonography	21	24	21	27	29	24	19	31	25	24
Echocardiography	6	4	16	9	21	32	31	32	29	35
Electrical Engineering	-	-	-	6	11	9	11	17	17	26
Electronics Engineering Tech	18	17	13	10	18	16	11	10	10	13

Bachelors

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Embedded Systems Eng Tech	-	-	-	1	2	2	4	1	5	3
Emergency Medical Services Mgt	-	-	-	-	-	-	-	-	-	1
Environmental Sciences	1	1	3	1	5	5	4	5	11	14
Geomatics	10	8	5	5	1	-	-	-	-	-
Geomatics-option in GIS	-	-	2	1	1	3	3	5	1	2
Geomatics-option in Surveying	-	-	1	11	13	14	10	13	1	12
Health Care Mgmt-Admin Mgmt	-	-	-	-	-	-	-	-	1	2
Health Care Mgmt-Clinical Mgmt	-	-	-	-	-	-	-	-	1	-
Health Sciences	1	3	2	2	2	6	1	1	-	-
Industrial Management	-	-	-	1	-	-	-	-	-	-
Information Technology	4	4	1	2	-	1	-	-	-	-
IT Accounting Option	-	1	2	1	1	2	1	2	-	-
IT Applications Dev Opt	8	5	13	5	6	8	21	12	8	11
IT Bus/Systems Analysis Opt	1	1	4	10	12	6	12	14	13	8
IT Health Informatics Opt	-	-	-	-	2	4	9	6	14	7
Management Information System	12	2	8	3	-	2	-	-	-	-
Manufacturing Engineering Tech	30	15	16	18	18	9	13	5	11	12
Mechanical Engineering	3	3	17	12	11	19	14	27	23	45
Mechanical Engineering Tech	31	19	31	23	24	19	24	18	17	21
Mgmt Info Sys/Mgmt Acc Option	-	3	-	-	-	-	-	-	-	-
Mgmt/Accounting Option	8	4	3	8	4	9	9	12	5	8
Mgmt/Marketing Option	9	7	5	5	7	8	7	4	7	7
Mgmt/Small Bus Mgmt Option	9	11	11	18	8	6	8	12	4	7
Nuclear Medicine Technology	18	18	16	15	16	16	15	14	14	15
Operations Management	8	6	3	15	7	14	16	13	19	18
Optical Engineering	-	-	-	-	-	-	-	-	1	1
Population Health Management	-	-	-	-	-	-	-	-	-	5
Radiologic Science	47	51	50	53	51	50	48	55	45	56
Renewable Energy Engineering	-	-	6	9	29	35	60	35	29	29
Renewable Energy Systems	-	-	1	-	-	-	-	-	-	-
Respiratory Care	5	8	6	7	10	21	21	21	27	22
Software Engineering Tech	44	36	27	27	31	29	41	31	35	47
System Engr & Technical Mgmt	-	-	-	-	-	-	-	-	-	3
Technology and Management	-	-	-	-	-	-	1	1	11	8
Ultrasound/Diag Med Sono Opt	1	-	-	-	-	-	-	-	-	-
Ultrasound/Vascular Option	1	-	-	-	-	-	-	-	-	-
Vascular Technology	30	30	26	23	23	25	21	28	19	24
Total	492	434	490	497	534	565	612	632	599	689

Masters

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Civil Engineering	-	-	-	-	-	-	-	-	2	6
Manufacturing Engineering Tech	3	4	7	2	6	8	12	4	8	9
Renewable Energy Engineering	-	-	-	-	-	-	-	1	11	9
Total	3	4	7	2	6	8	12	5	21	24

Grand Total

	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Grand Total	593	521	574	594	610	635	699	721	694	774

Attachment 4_Grad_Data_First_Destination_3_Year_History_by_Major

Oregon Tech Graduate Outcome Data

a=2013/2014/2015 combined	% Employed		% Continuing Ed		% Looking for Work		% Not Looking		Success Rate		Median Salary	
b=2014/2015/2016 combined	a	b	a	b	a	b	a	b	a	b	a	b
% among those reporting outcomes	83.3	87.6	6.1	6.7	9.4	4.9	1.2	0.8	90.6	95.1	\$ 54,000	\$ 56,000
Biology-Health Sciences	36	38	60	62	4	0	0	0	96	100	\$ 20,750	\$ 33,000
Civil Engineering	83	92	11	8	6	0	0	0	94	100	\$ 50,000	\$ 51,540
Communication Studies	60	67	13	11	27	22	0	0	73	78	\$ 27,000	\$ 28,500
Computer Engineering Technology	89	93	0	0	0	0	11	7	100	100	\$ 63,000	\$ 64,000
Dental Hygiene	86	96	4	1	9	2	1	1	91	98	\$ 53,000	\$ 57,500
Diagnostic Medical Sonography	97	98	3	2	0	0	0	0	100	100	\$ 60,000	\$ 60,868
Echocardiography	95	93	0	3	5	3	0	0	95	97	\$ 60,500	\$ 64,000
Electrical Engineering	87	83	0	10	13	7	0	0	87	93	\$ 60,000	\$ 60,000
Electronics Engineering Technology	73	82	7	5	20	14	0	0	80	86	\$ 54,250	\$ 66,750
Embedded Systems Engineering Tech	80	83	0	17	20	0	0	0	80	100	\$ 58,250	\$ 60,000
EMT/Paramedic	100	100	0	0	0	0	0	0	100	100	\$ 48,000	\$ 52,000
Environmental Sciences	67	76	11	18	22	6	0	0	78	94	\$ 39,800	\$ 40,000
Geomatics: GIS	100	100	0	0	0	0	0	0	100	100	\$ 42,000	\$ 42,000
Geomatics: Surveying	69	64	0	9	31	27	0	0	69	77	\$ 40,500	\$ 43,000
Health Care Management	75	80	25	20	0	0	0	0	100	100	\$ 52,000	na
Health Informatics	75	79	10	11	15	11	0	0	85	89	\$ 53,000	\$ 52,000
Information Technology	84	88	0	2	16	10	0	0	84	90	\$ 55,000	\$ 55,000
Management: Accounting	78	83	6	6	17	11	0	0	83	89	\$ 32,000	\$ 32,250
Management: SmBus/Entrepreneurs	77	87	15	13	8	0	0	0	92	100	\$ 33,000	\$ 40,900
Management: Marketing	82	93	0	0	18	7	0	0	82	93	\$ 39,250	\$ 48,500
Manufacturing Engineering Technolo	77	85	5	4	13	11	0	0	87	89	\$ 62,500	\$ 60,000
Mathematics, Applied	60	71	20	29	0	0	20	0	100	100	na	na
Mechanical Engineering	71	82	12	9	10	5	7	4	90	95	\$ 60,000	\$ 60,000
Mechanical Engineering Technology	86	100	7	0	7	0	0	0	93	100	\$ 60,000	\$ 62,500
Medical Laboratory Science	100	100	0	0	0	0	0	0	100	100	\$ 53,750	\$ 55,000
Nuclear Medicine Technology	87	86	0	3	13	11	0	0	87	89	\$ 57,000	\$ 57,846
Nursing												
Operations Management	83	83	11	14	6	3	0	0	94	97	\$ 63,000	\$ 63,000
Polysomnographic Technology	83	100	0	0	17	0	0	0	83	100	\$ 50,000	\$ 40,500
Population Health Management	na	75	na	25	na	0	na	0	na	100	na	\$ 42,000
Psychology, Applied	54	66	24	26	15	5	6	3	85	95	\$ 30,000	\$ 30,000
Radiologic Science	92	97	1	0	6	3	1	1	94	97	\$ 47,000	\$ 50,000
Renewable Energy Engineering	76	83	6	8	18	9	0	0	82	91	\$ 57,000	\$ 56,500
Respiratory Care	97	98	0	0	3	2	0	0	97	98	\$ 56,000	\$ 56,000
Software Engineering Technology	93	91	0	0	3	7	3	3	97	93	\$ 62,250	\$ 66,750
Technology and Management	100	88	0	0	0	12	0	0	100	88	na	na
Vascular Technology	92	91	0	0	8	9	0	0	92	91	\$ 64,602	\$ 62,000

Additional Notes:

Numbers may not add to 100 due to rounding

na=not reported, or not available due to small sample size

METHODOLOGY

Sample Frame 2016: 781 degrees awarded per FAST

Survey Response Rate: 49% Total Knowledge Rate 2016: 75%

Sources: Data collected from a variety of sources. Below, for 2016, in chronological order:

Grad Fair paper survey

Faculty senior exit survey

Career Services survey

Career Services followup with non-respondents

Faculty information from their contact with students

LinkedIn Profiles

Salaries of \$2,500 and below and \$250,000 and above were deleted.

Students with dual majors are included under each major

Known Outcomes 2016: 587

Known Outcomes 2013/2014/2015 combined N=1008

Known Outcomes 2014/2015/2016 combined N=1244