

Coastline College

Sciences

Program Student Learning
Outcomes Report

Updated 2018-19

COASTLINE
COLLEGE



2015-2016

2015-2016 Sciences Program Student Learning Outcomes (PSLOs)

Sciences PSLOs	N	Able and Confident	Able and Somewhat Confident	Able and Not Confident	Not Able
Adequately explain thinking and mathematical processes, and justify mathematical solutions effectively and accurately.	8	75.0%	12.5%	12.5%	0.0%
Apply appropriate physical laws and mathematical techniques to analyze various physical situations.	8	62.5%	37.5%	0.0%	0.0%
Apply major theories and principles of the field to everyday life and determine the impact of these theories on the aging individual and/or society as a whole.	8	75.0%	25.0%	0.0%	0.0%
Communicate chemical concepts effectively in written and/or oral forms.	8	50.0%	12.5%	37.5%	0.0%
Design and apply the process of science to address a hypothesis.	8	87.5%	12.5%	0.0%	0.0%
Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly-changing healthcare/management environment.	8	100.0%	0.0%	0.0%	0.0%
Find, select, evaluate and communicate scientific information present in primary research literature, mass media, online or other sources.	8	75.0%	25.0%	0.0%	0.0%
Identify and describe major concepts and theoretical principles as applied to physics.	8	37.5%	37.5%	12.5%	12.5%
Perform various scientific experiments and analyze data to check agreement with theoretical predictions.	8	62.5%	37.5%	0.0%	0.0%
Support opinions/ideas using solid research principles.	8	87.5%	12.5%	0.0%	0.0%

There were not enough respondents (less than 10) to the 2015-2016 post-graduation survey for the Sciences Program to produce meaningful data.

2016-2017

There were no graduates for the Sciences Program in 2016-17.

2017-2018

There were no graduates for the Sciences Program in 2017-18.

2018-2019

2018-2019 Sciences Program Student Learning Outcomes (PSLOs)

Sciences PSLOs	N	Able and Confident	Able and Somewhat Confident	Able and Not Confident	Not Able
Adequately explain thinking and mathematical processes, and justify mathematical solutions effectively and accurately.	8	62.5%	37.5%	0.0%	0.0%
Apply appropriate physical laws and mathematical techniques to analyze various physical situations.	8	62.5%	25.0%	12.5%	0.0%
Apply major theories and principles of the field to everyday life and determine the impact of these theories on the aging individual and/or society as a whole.	8	50.0%	50.0%	0.0%	0.0%
Communicate chemical concepts effectively in written and/or oral forms.	8	37.5%	37.5%	12.5%	12.5%
Design and apply the process of science to address a hypothesis.	8	75.0%	12.5%	12.5%	0.0%
Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly-changing healthcare/management environment.	8	75.0%	12.5%	12.5%	0.0%
Find, select, evaluate and communicate scientific information present in primary research literature, mass media, online or other sources.	8	50.0%	50.0%	0.0%	0.0%
Identify and describe major concepts and theoretical principles as applied to physics.	8	37.5%	37.5%	12.5%	12.5%
Perform various scientific experiments and analyze data to check agreement with theoretical predictions.	8	75.0%	25.0%	0.0%	0.0%
Support opinions/ideas using solid research principles.	8	75.0%	25.0%	0.0%	0.0%

There were not enough respondents (less than 10) to the 2018-2019 post-graduation survey for the Sciences Program to produce meaningful data.

2015-2016 through 2018-2019

Aggregate Sciences Program Student Learning Outcomes (PSLOs)

Sciences PSLOs	N	Able and Confident	Able and Somewhat Confident	Able and Not Confident	Not Able
Adequately explain thinking and mathematical processes, and justify mathematical solutions effectively and accurately.	16	68.8%	25.0%	6.3%	0.0%
Apply appropriate physical laws and mathematical techniques to analyze various physical situations.	16	62.5%	31.3%	6.3%	0.0%
Apply major theories and principles of the field to everyday life and determine the impact of these theories on the aging individual and/or society as a whole.	16	62.5%	37.5%	0.0%	0.0%
Communicate chemical concepts effectively in written and/or oral forms.	16	43.8%	25.0%	25.0%	6.3%
Design and apply the process of science to address a hypothesis.	16	81.3%	12.5%	6.3%	0.0%
Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multicultural, team-oriented, rapidly-changing healthcare/management environment.	16	87.5%	6.3%	6.3%	0.0%
Find, select, evaluate and communicate scientific information present in primary research literature, mass media, online or other sources.	16	62.5%	37.5%	0.0%	0.0%
Identify and describe major concepts and theoretical principles as applied to physics.	16	37.5%	37.5%	12.5%	12.5%
Perform various scientific experiments and analyze data to check agreement with theoretical predictions.	16	68.8%	31.3%	0.0%	0.0%
Support opinions/ideas using solid research principles.	16	81.3%	18.8%	0.0%	0.0%

The aggregate post-graduation survey results show that the majority of graduates of the Sciences Program were able and confident or somewhat confident in demonstrating the PSLOs. Graduates indicated that their ability and confidence in supporting opinions/ideas using solid research principles was highest. In contrast, confidence and ability was lowest in communicating chemical concepts effectively in written and/or oral forms.