

Degree/Certificate Program

Biological Science AST

Program Student Learning Outcomes (pSLOs)

To evaluate the program student learning outcomes (pSLOs), students were asked: “With respect to all of the classes you have taken at FLC toward an AST in Biological Science how well have the classes prepared you to...(each pSLO was listed).” Responses ranged from 5 “excellent preparation” to 1 “inadequate preparation”. Below is a summary of the student responses by the semester the student petitioned to graduate.

PSLOs	Total				18-19	17-18	16-17	Spring 16
	Mean	Std. Dev.	Min.	Max.	Mean	Mean	Mean	
Apply acquired knowledge, skills, and abilities toward successful completion of coursework at transfer institutions.	4.14	0.69	3	5	4	4.50	4.00	
Demonstrate knowledge of the language, facts, and concepts that serve as the foundation for working independently on more complex problems.	4.43	0.53	4	5	4	4.50	4.50	
Employ appropriate information-gathering tools to investigate scientific matters.	4.57	0.53	4	5	5	4.50	4.50	
Clearly communicate scientific information, both orally and in written form, to diverse audiences.	4.14	0.90	3	5	5	4.00	4.00	
Demonstrate laboratory and field habits consistent with accepted practices for safety, documentation, and core techniques.	4.43	0.79	3	5	3	5.00	4.50	
Analyze data sets, recognize the implications of disturbances to biological systems, and synthesize information to draw conclusions.	4.29	0.76	3	5	3	4.50	4.50	
Differentiate between scientifically-derived knowledge, myth, and conjecture in professional or everyday encounters with information.	4.14	0.90	3	5	3	5.00	4.00	
Recognize and discuss ethical implications of biological research when encountered in personal, community, and scientific issues.	3.71	0.76	3	5	5	3.50	3.50	
Engage in free exchange of ideas to support creative problem solving.	4.43	0.53	4	5	4	5.00	4.25	
Evaluate former and proposed human activities, and, if necessary, recommend alternative actions that are environmentally sustainable.	4.00	1.00	2	5	4	4.50	3.75	

Number of responses	7				1	2	4	0
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Additional Feedback

Students were given the opportunity to provide additional comments about their experience in the program and more broadly at FLC. Below are the questions students were asked, along with the comments provided by the students:

Please provide any additional comments about your experiences taking classes toward an AST degree in Biological Science that might help FLC improve the program.

2016-2017

Having more sections available to students would be more helpful. Only one section of BIOL 410 and BIOL 420 were offered at FLC; since the time allotted for the section may not work for many students, they are forced to take the class at a college farther away.

2017-2018

I found that I learn a lot more when teachers, especially in biology, take the time to find real life applications for their subject. For example, when Professor xx would give us the opportunity to go to Cal Academy of the Arts and Monterey Bay Aquarium. This helped us to cement our knowledge of different animals and recall what we learned about in her Zoology class. Or how Professor xx takes us out around campus to show us plants we had previously never noticed. This kind of application has helped me to learn and retain knowledge. I would suggest that Biology teachers at FLC should try to find ways to give their students opportunities to apply their knowledge as much as possible in a non-test environment so that they know what they already know and what they need to study.

Is there anything else you would like share about your experience as an FLC student?

2017-2018

Great campus with awesome teachers that truly care about their students and make them work hard to succeed. I'm glad that I went to FLC. I love the close community feeling that the EDC campus has!

Were there any services or supports offered by the college that were a significant support to the achievement of your academic goals?

2016-2017

Counseling: XX was amazing!

Dsps

Science Skills Course

tutoring center

2017-2018

Hands-On Science Fridays!

The EDC Reading Writing Center was great at proof-reading any scientific papers I brought to them even when they couldn't fully understand the topic they did a great helping me with my errors

Did you experience any significant barriers to achieving your academic goals?

2016-2017

Spine problems

Work, life and overcoming my weaknesses in math

2018-2019

Sickness