



Degree/Certificate Program
 Biological Science AS

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 AS 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				Spring 16	16-17	17-18
	Mean	Std. Dev.	Minimum	Maximum	Mean	Mean	Mean
Apply acquired knowledge, skills, and abilities toward successful completion of coursework at transfer institutions.	4.56	0.63	3	5	4.00	4.43	4.86
Demonstrate knowledge of the language, facts, and concepts that serve as the foundation for working independently on more complex problems.	4.63	0.72	3	5	4.00	4.57	4.86
Employ appropriate information-gathering tools to investigate scientific matters.	4.56	0.63	3	5	4.50	4.43	4.71
Clearly communicate scientific information, both orally and in written form, to diverse audiences.	4.50	0.63	3	5	4.00	4.43	4.71
Demonstrate laboratory and field habits consistent with accepted practices for safety, documentation, and core techniques.	4.63	0.72	3	5	3.50	4.57	5.00
Analyze data sets, recognize the implications of disturbances to biological systems, and synthesize information to draw conclusions.	4.50	0.63	3	5	4.00	4.29	4.86
Differentiate between scientifically-derived knowledge, myth, and conjecture in professional or everyday encounters with information.	4.69	0.60	3	5	4.50	4.57	4.86

Recognize and discuss ethical implications of biological research when encountered in personal, community, and scientific issues.	4.69	0.60	3	5	4.00	4.57	5.00
Engage in free exchange of ideas to support creative problem solving.	4.56	0.73	3	5	4.50	4.29	4.86
Evaluate former and proposed human activities, and, if necessary, recommend alternative actions that are environmentally sustainable.	4.44	0.73	3	5	3.50	4.43	4.71
Number of responses	16				2	7	7

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 AS degree in Biological Science that might help FLC improve the program.

Spring 2016

Lack of class availability severely hindered my educational goals.

2016-2017

Would have been nice to have more upper level classes for all upper level bio, chem, and math classes only one class a semester on average. Very annoying to try to get classes at time and teachers kept saying they were hiring more teacher to get more upper level classes never saw that occur though

2017-2018

Professors were very knowledgeable and passionate about their subjects. They also were very helpful and want their students to succeed.

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

2017-2018

awesome college overall - the math and science professors here are fantastic

Counseling was not helpful at all. I had to come back and do paperwork after transferring to UC Davis in order to graduate from there because counseling never told me what was needed. Counseling needs to be improved drastically

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

Spring 2016

Counseling, financial aid, science center

Tutoring

2016-2017

Counseling Center was the best

DSP&S

Tutoring

2017-2018

Clubs, Financial aid, Counseling

Counseling

The tutoring center and science center helped me with both content clarity as well as being a better student.

tutoring center

Did you experience any significant barriers to achieving your academic goals?**Spring 2016**

Class availability.. Three semesters to get chem 400

2017-2018

General chemistry was a really hard class to get enroll. I was waitlisted for a year.