

## Degree/Certificate Program

Mathematics 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 degree in Mathematics 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	Mean
Identify, formulate, and solve applied problems (using calculus and linear algebra) in verbal, numeric, graphical, and symbolic form related to science, economics, or business.	4.10	0.79	3	5	4.25	3.71	4.33	4.33
Recognize and construct valid arguments using deductive and inductive reasoning skills.	4.30	0.66	3	5	4.25	3.86	4.50	5.00
Define and utilize terminology of mathematics with emphasis in calculus, linear algebra, and either statistics, logic or problem solving.	4.05	0.89	2	5	4.25	3.43	4.50	4.33
Calculate derivatives and integrals using a variety of defined rules and strategies of calculus, algebraic properties and trigonometric identities.	4.20	0.83	2	5	4.25	3.57	4.50	5.00
<b>Number of responses</b>	20				4	7	6	3

### 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 Mathematics that might help FLC improve the program.**

#### Spring 2016

All professors were approachable and more than willing to provide any assistance in improvement & better understanding to set up for successful completion.

#### 2017-2018

I was originally pursuing the Diagnostic Sonography program. I spent 2 years working on pre requirements, had a 4.0 upon finishing my final pre-req. course only to find out (initially through the grapevine) that applications were no longer being accepted for the program. No explanation was ever given. I had multiple appointments with Advisors begging for an explanation. No explanation was ever given, only that it was a waste of time submitting an application for the program. Words can not explain the feeling of devastation and depression. I had never worked so hard towards something in my entire life. To this day, I am still blown away by how unprofessionally Los Rios handled (or didn't handle) the entire situation. Failing to notify ANYONE that the program was no longer available is unacceptable and quite frankly disgusting. To this day, I have never been given an explanation or even an apology. It would be REALLY impressive if someone would SOMEDAY reach out to me and offer some sort of explanation.

#### **2018-2019**

XX, XX, XX were amazing to learn from.

Take your courses continually; its easier if you do not take breaks off from the skills

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

##### **Spring 2016**

Best campus overall

Overall the instruction was great but I was very dissatisfied with the registration process.

##### **2016-2017**

Flc has been good to me. I will miss it

It was hard because I want to be an ultrasound technician and the only AA I could get towards it was an AA in math/science

##### **2017-2018**

It was fun

The best professors I have ever experienced studying under are at FLC.

##### **2018-2019**

FLC Innovation Center allowed me to connect to my peers in a way that helped me in my school career

This school changed my life. Thank you.

#### **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.

EOPS. Counseling center

##### **2016-2017**

DSPS, tutoring center

##### **2017-2018**

I am now at UC Davis studying Global Disease Biology. I 100% owe not falling off the deep end and quitting school after FLC wasted 2 years of my life to Dr. xx Dr. xx and Dr. xx. Again, what I have to say is important about how your institution failed to handle the Diagnostic Sonography program. Maybe someday someone will care enough to contact me and discuss it.

Reading & writing center. It helped me to get all As and I was able to skip one class, which save me time and \$

#### **2018-2019**

Counseling was very helpful and supportive

Support from fellow students and staff

Tutoring Center

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

##### **Spring 2016**

Not being able to get into classes put me back an entire year, even with taking summer classes.

##### **2017-2018**

The diagnostic sonography program stopped accepting applicants, and NO ONE bothered to contact ANYONE (including advisors) about it. I had numerous advising appointments during the 2 years I worked on COMPLETING ALL pre requisite courses (with straight A's), and at no point did anyone notify my that I was completely wasting my time.

##### **2018-2019**

I had a motorcycle accident one year, left me with very few options for transportation to school. I also lost my job the following year, and had to drop classes, which led to academic Probation

Personal relationships with other peers both romantic and non romantic made its very difficult at times.