

## Full-Time Faculty Position Request Form 2019 - 2020

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This form is used by departments and programs to request new or unfilled faculty positions relying on Program Review and/or other justifications. Submit one form for each position requested. For multiple positions, indicate priority of request (e.g., Subject Position 1, Subject Position 2, etc.). Forms are due to Division Deans by September 15, 2018.

Position Requested:

Contact Person:

Discipline/Division:  Starting Term: Fall  Spring

This form requires the use Enrollment Management Tool data, which can be found at the following link: <http://www.laspositascollege.edu/researchandplanning/FacultyPrioritization.php> (If you have any questions about the data, please contact Rajinder Samra 925-424-1027 or [rsamra@laspositascollege.edu](mailto:rsamra@laspositascollege.edu)) or your Dean. The data will be verified by the Dean. Do not attach data spreadsheets.

Check if position is a: Replacement  or New

If replacement: What is the position code? (see Dean)

Name of the person being replaced:

Length of time position(s) unfilled:

### CRITERIA

1. Number of Full-Time Faculty currently in Discipline:

If requesting more than one position, add 1 to this number for each subsequent position requested.

2. Percentage of FTEF taught by full-time faculty as load for the past six semesters, and projected for one year assuming a successful hire. (Use data from link above. If requesting more than one position, see Rajinder Samra to determine the projected numbers.)

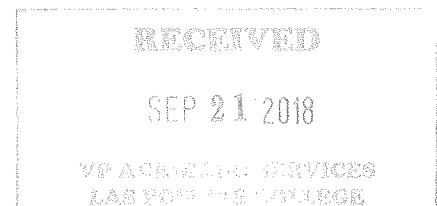
Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	<u>Projected</u>	Fall 2019	Spring 2020
<input type="text" value="43.0%"/>	<input type="text" value="40.5%"/>	<input type="text" value="44.3%"/>	<input type="text" value="37.1%"/>	<input type="text" value="39.1%"/>	<input type="text" value="30.4%"/>	■	<input type="text" value="56.1%"/>	<input type="text" value="54.5%"/>

3. a. For Instructional Faculty: WSCH per FTEF for the past six semesters (use data from link above):

Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018
<input type="text" value="558.6"/>	<input type="text" value="549.6"/>	<input type="text" value="579.8"/>	<input type="text" value="528.6"/>	<input type="text" value="555.8"/>	<input type="text" value="524.8"/>

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Full-Time Faculty Request Form 2019-20: FHPC Revisions May 3, 2012, Sept. 18, 2012, April 30, 2013, December 4, 2015, March 21, 2018; Presented to Academic Senate-January 27, 2016, April 11, 2018



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b. For non-instructional faculty (librarians and counselors): Student/Faculty ratio for the past six semesters, and projected for one year assuming a successful hire. Divide headcount by number of full-time faculty. For example: 8000 students divided by 3 full-time faculty. 1:2666

(If requesting more than one position, see Rajinder Samra to determine the projected numbers).

Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018		<u>Projected</u> Fall 2019	Spring 2020

#### 4. Program Characteristics:

- a. List the courses taught and/or work performed in the discipline.  
(Be brief and specific. Use your Program Review to complete this section.)

We teach all levels of math beginning with Prealgebra through Calculus, Differential Equations, Linear Algebra and Discrete Mathematics. Specifically:  
 Basic Skills: Math 107, 107A, 107B, 110, 110A, 110B, 107E, 110E 55E, 107F, 110F, 55F  
 AA/AS Degree-Applicable: Math 50, 55, 55A, 55B, 72A, 72B, 72C, 72D, 52A, 52B, 53A, 53B  
 Transfer Level: Math 40, 33, 34, 45, 47, 39, 30, 1, 2, 3, 5, 7, 10  
 Other Courses: Math 107E, 110E, 55E, 107F, 110F, 55F, 51

Our courses are taught in a variety of different modes and facility needs:  
 Self-accelerated learning lab (Math Emporium), lecture/ hands-on workshops, distance education, TBA assignments where students complete specific curriculum in the Mathematics Learning Center; lecture/computer lab (statistics, differential equations and linear algebra).

Non-Classroom activities: The Mu Alpha Theta Honor Society & Math Club encourages students to have fun with and explore math. The AMATYC Student Math League exam is offered and administered each semester to students as a competition. The department runs a graphing calculator rental program for students. The Math Learning Center provides students with just-in-time math help. Math Jam serves students wanting to prepare for their math class or retake the placement exam. All of these activities (and others outside the discipline not mentioned here) require full-time faculty coordination and collaboration with part-time faculty.

\*Several of our current full-time instructors are working alternative duties in conjunction with teaching, including Curriculum Committee Chair, Interim Articulation Officer, Professional Development Chair, Basic Skills Committee Chair, Coordinator of HSI Title V Grant or BSSOT Grant. Please note that these alternative duties are not reflected in the projected numbers for Question #2. In reality, fall 2019 would have approximately 36.0% of classes taught by full-time faculty, and spring 2019 would have approximately 34.9%. (This is also in accordance with the previous semesters.)

b. Total number of primary sections as identified in data taught in the discipline in each of the last six semesters (use data link from page1):

Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018
89	89	89	93	88	91

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c. Student enrollments (FTES) in the classes taught (use data link from page 1) or number of students served in each of the last six semesters:

Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018
536	545	538	517	549	531

d. List special characteristics of the discipline such as: (Be brief and specific. Use your Program Review to complete this section.)

- Mandated class size limits due to state, contract, and accreditation standards.
- Facilities
- Number of courses out of the total number of courses in the discipline that meet General Education Requirements
- Number of courses out of the total number of courses offered that are required as part of an AA/AS degree, certificate or transfer
- Discipline provides basic skills courses
- Discipline provides mandated and specialized services to students
- Other

Mathematics is a gateway course for our students and some courses serve as prerequisites for multiple science classes. We are continually improving the method and modes for which we offer all of our courses. We have implemented a more robust use of multiple measures for placement, which means our student profile may change in the next year within our classes. With the

The Integrated Learning Center was instituted to allow students access to curriculum that is not possible to do during the lecture portion; the assignments are conceptual, in-depth or summative in nature - a lab without chemicals. It is staffed by math faculty members at all times, five days a week for about 40 hours per week.

Math Jam has been offered each Fall and Spring since 2014; an award-winning, intensive one-week program the week prior to the start of Spring and Fall semesters, in January and August. Math Jam is for ALL students, to help them achieve their math goals - from preparing to re-take the Math Placement Test to preparing for their upcoming math courses. Math Jam is designed to help students complete their goal of a degree or transfer faster, while introducing them to a community of support and FREE resources at LPC.

Of our 44 different courses (Including A/B/E/F courses) offered, 13 courses are approved for UC/CSU transfer; those 13 plus 12 additional are AA/AS degree-applicable and meet general education requirements. 13 are Basic Skills courses, and 7 others are support courses:

Basic Skills: Math 107, 107A, 107B, 110, 110A, 110B, 107E, 110E, 55E, 107F, 110F, 55F

AA/AS Degree-Applicable: Math 50, 55, 55A, 55B, 72A, 72B, 72C, 72D, 52A, 52B, 53A, 53B

Transfer Level: Math 40, 33, 34, 45, 47, 39, 30, 1, 2, 3, 5, 7, 10

Other Courses: Math 107E, 110E, 55E, 107F, 110F, 55F, 51

Special services to students include: Graphing Calculator Rental Program, Math Learning Center for just-in-time math help.

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5. Describe how courses and/or services in this discipline impact other disciplines and programs. (Be brief and specific. Use your Program Review to complete this section.)

There are several math courses that serve as a service course/prerequisite for sciences, computer science, engineering and the trades (ECE, welding, and automotive). Some of these math courses are infused with applications so that these students are seeing content in multiple classes.

Math courses serve as prerequisites/strongly recommended for the following courses outside of math: BIO 1A, BIO 1B, BIO 1C, BIO 30, CHEM 1A, CHEM 30A, CHEM 31, CS 1, CS 17, ECON 1, ECON 2, ENGR 22, ENGR 25, ENGR 35, ENGR 37, NUTR 1, PHYS 1A, PHYS 1B, PHYS 1C, PHYS 2A, PHYS 10, PHYS 10L, PSYC 25, RADS 40A, SOC 13.

Math courses serve as requirements for the following degrees/certificates:

AA-T: Kinesiology, Journalism, Psychology, Sociology;

AS-T: Administration of Justice, Biology, Business Administration, Geology, Mathematics;

AA: Business Administration, Chemistry Education, Environmental Studies, Liberal Arts & Sciences: Math & Science Emphasis;

AS: Chemistry, Computer Science, Engineering Technology, Environmental Science, Occupational Safety & Health, Physics, Welding Technology;

Certificate of Achievement: Welding Technology.

Every student wanting to transfer to a university who comes to LPC must take at least one math class to satisfy transfer requirements, and many students take a math course to satisfy AA/AS degree requirements. Most of our students come needing remediation in mathematics requiring from one to three classes. Due to some changes in legislation (AB 705) and placement policies this will change, and the math department will be monitoring student success and persistence carefully with each new initiative.

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6. If this is the first full-time position in the discipline, discuss: (Be brief and specific. Use your Program Review to complete this section.)

- b. Justification for the position.
- c. Projected start-up costs for equipment, facilities, and support staff for the first three years.
- d. Projected enrollment growth for the next three years, starting with the first semester of the projected faculty hire.

N/A

7. What are the impacts on students, the discipline and the college of NOT filling this faculty position? What are the programs/courses/services that have not been or cannot be offered due to the vacancy? (Be brief and specific. Use your Program Review to complete this section.)

Finding, mentoring and evaluating part-time mathematics faculty is a daunting task. We currently have 47 part-time faculty, and every semester we are scrambling to recruit and hire new part-time faculty to teach our classes, since many of them teach at multiple colleges, and their schedules are limited very quickly with classes elsewhere.

We have several new initiatives to be implemented in fall 2019, specifically implementing AB 705, which requires CA community colleges to allow students to enroll in transfer-level mathematics. Multiple measures (High School GPA, last HS math class passed) will be used to place all new students into math courses in fall 2019; ACCUPLACER will not be approved at the state level for placing our students into classes. We are currently working on developing noncredit curriculum for basic skills courses (107, 110, 50, 55), to be offered as both noncredit and credit (mirrored) for students who still feel they need basic skills, as well as Math Jam noncredit curriculum to institutionalize the Math Jam Program, and certificates so that these noncredit courses can be approved for enhanced CDCP funding.

Even though the Math Department has received seven new faculty in the past four years, only ONE of those seven is a "new" faculty - the other six are replacements for retirees. Our department is consistently offering more sections each year to accommodate our ever-growing student population. As our student population grows and our course offerings grow and department faculty work other assignments, our department becomes stretched thin with many department initiatives.

We need consistent leadership and support from our full-time faculty to fulfill and maintain these efforts.

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8. Any additional information that addresses justification of the position. If multiple positions are being requested, this is an opportunity to differentiate the justifications for additional positions.

Mathematics is a huge program at LPC. We have served over 33% of the students each semester since Fall 2011. We address basic skills needs and transfer needs. There are quite a few initiatives in the math department that require full-time math attention.

- The Math Learning Center is putting stress on all our faculty to try to meet student's needs. This is a wonderful facility and we need to have confident, consistent help available for our students.
- The Math Emporium program requires massive full-time faculty input and analysis of data, as well as coordinating the many different courses held in Emporium.
- Closing the loop on Student Learning Outcomes for the multiple levels and variety of math courses we teach is a daunting task without full-time faculty help.
- The Math Department has been participating in TWO grants - a Federal Title V HSI grant, and a State Basic Skills Student Outcomes and Transformations grant. Initiatives in these grants are being coordinated by full-time faculty, and implementation will take the entire department.
- Math Jam is offered twice a year to students in order to help them achieve their math goals - from preparing to re-take the Math Placement Test to preparing for their upcoming math courses. Finding permanent funding sources will require the support of the full time math department.
- Success and retention in mathematics is a constant concern that needs to be addressed by full-time faculty
- AB 705 is forcing us to envision new courses and improve our teaching, meeting the students where they are.

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The list goes on and on. All the math faculty are working on college and department items aside from their teaching load and we just can't get it all done. As we continue to grow our needs grow as well. As wonderful as our part-time faculty is, many of the things that need doing they cannot do. We need help.

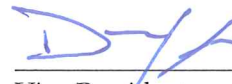
Signatures:



Requestor



Dean



Vice President