



# WESTMONT

## Faculty Position Request Form

(Used for requesting a new faculty position or filling a vacant position)

Department: Mathematics and Computer Science

Submitted by: Patti Hunter

Date: 8/28/2014

Nature of request:

This is a request for a new faculty position (addition) in the department.

This is a request to fill a vacancy.

Who is the faculty member leaving or retiring? Jonathan Leech

Rationale: On a separate page, please briefly describe the curricular need for this faculty position, including benefit to the department if the position is filled and the negative impact if it is not.

Additional documents needed:

- (a) Please complete the table on the next page listing courses the person will teach and the enrollment in these courses for the past 3 years. Also, identify any new courses the department hopes to offer if this position is filled.
- (b) Position job description

Please submit materials to the Provost's Office.

Currently, we have four faculty lines in mathematics, including the one that will be vacated by Jonathan Leech upon his retirement at the end of 2014-15.

Russ Howell's position as Kathleen Smith Chair gives him a 4-unit course reduction. One faculty line gets a 4-unit per year course reduction for serving as department chair.

Thus the department is able to cover 88 units of teaching with its four lines. ( $4 \times 24 - 4 - 4 = 88$ ).

The table on the next page shows our course offerings for the past four years. We typically offer 90 units of courses.

Recent enrollments indicate that there is sufficient demand on MA 5, MA 9, and MA 10 to continue offering those courses at the current rate. MA 4 meets the AR and QAR GE requirements and has been well-subscribed in recent years. Both MA 15 and MA 19 serve the mathematics major as well as at least one other major. MA 20 is a core course in mathematics programs nationally. MA 160 and MA 165 are required courses for the teacher preparation program (elementary) and so are essential service courses. The pre-calculus course (MA 8) has had low enrollments. We added it to our offerings five years ago because we were encountering students who planned to take MA 9 (calculus) either for a math major or as a requirement for other sciences, but were insufficiently prepared. Last year we had the course certified to meet the AR GE and there are 17 students enrolled this fall. Our BA and BS degrees require 22 and 28 units of upper division courses, respectively. These are typical requirements for a mathematics major at a liberal arts college. Each of our upper division courses is offered every other year. Most students would have difficulty completing their upper division courses if we reduced our offerings.

With sabbatical and other leaves over past years, we have covered at least four units in most years with an adjunct. If Jonathan Leech's position is not filled, we will need to cover more courses with adjuncts or reduce our offerings. We think either remedy would weaken our program.

Any of the faculty occupying our four lines can teach any of the courses we offer, and we rotate courses regularly. For this reason, I have not specified which courses the new faculty member would be expected to teach. That decision will depend on the person's interests and background, and on the availability of other faculty in the department.

### Fall Course Offerings

course	units		2010	2011	2012	2013
5	4	Intro to Statistics	24	33	23	30
5	4	Intro to Statistics	21	32	36	33
8	4	Functions and Models	8	3	9	13
9	4	Calculus I	25	21	28	32
9	4	Calculus I	20	30	24	21
9	4	Calculus I	34	11	Not offered	
10	4	Calculus II	7	9	16	14
19	4	Multivariable Calculus	15	17	24	20
100	4	Upper Division Req'd	9	8	8	5
100	4	Upper Division Elective	9	4	6	9
100	4	Upper Division Elective		7		3
160	4	Fundamentals of Mathematics	13	29	30	6
180	1	Problems Solving	3	4	4	5
Total units offered each semester			45	49	41	45

### Spring Course Offerings

course	units		2011	2012	2013	2014
4	4	Mathematics in Context	10	21	19	33
5	4	Intro to Statistics	29	31	31	33
5	4	Intro to Statistics	29	24	28	32
5	4	Intro to Statistics		33	30	31
9	4	Calculus I	21	17	19	23
10	4	Calculus II	22	23	17	22
15	4	Discrete Mathematics	13	13	9	19
20	4	Linear Algebra	9	4	16	8
100	4	Upper Division Elective	13	11	2	5
100	4	Upper Division Elective	12	9	7	4
100	4	Upper Division Req'd for BS	3	3	4	
165	2	Fundamentals of Mathematics II	12	22	25	15
180	1	Problem Solving	8	5	3	6
Total units offered each semester			45	49	49	45
total units offered for the acad. yr			90	98	90	90

## Job Description

The Department of Mathematics and Computer Science invites applications and nominations for a tenure-track position at the rank of assistant professor, effective fall 2015. Applicants should have a Ph.D. degree in mathematics or a mathematical science. Selected applicants will be interviewed at the Joint Mathematics Meetings in San Antonio. Applicants should send the following: a letter of application, a CV, names of three references, and a Faculty Employment Application with accompanying Personal Statements (see [http://www.westmont.edu/\\_academics/pages/provost/faculty\\_application.pdf](http://www.westmont.edu/_academics/pages/provost/faculty_application.pdf)) to Dr. Patti Hunter, Department of Mathematics and Computer Science, Westmont College, 955 La Paz Road, Santa Barbara, CA 93108 (or email: [rsdept@westmont.edu](mailto:rsdept@westmont.edu)). Review of applications will begin in November 2014, and will continue until the position is filled. Westmont is a national liberal arts college in the evangelical Protestant tradition. We seek faculty who are committed to undergraduate teaching, to a program of scholarly activity, and to the mission of liberal arts education, all growing out of a vital and informed commitment to the Christian faith. The diversity of Westmont's student body is increasing, with 29% of this year's student body self-identifying as students of color; the department is committed to broadening the participation of students of color and women in mathematics. Thus we seek candidates with knowledge of the unique experiences of these students and an ability to teach and mentor students of diverse backgrounds. Westmont is an EO employer, seeking to be diverse in people and programs consistent with its mission.