

Assessment of programs 2019
B.S. and B.A degrees in Mathematics

Assessment of our mathematics majors is done in a variety of forms, mostly in an on-going basis through the department's Undergraduate Committee's review of STEM and mathematics major courses. In addition to course work, students are also assessed by through their overall levels of participation in department, university and professional activities; these include interdisciplinary research projects, career fairs, REU's, internships, The Math Club, AWM (Association for Women in Mathematics), AWSM (Arkansas Women in Statistics and Mathematics), Celebration of Mind, tutoring, and the Putnam Exam.

Our production of math graduates has been approximately constant in the last few years. According to the Office of Institutional Research and Assessment the following are the number of BA and BS degrees in the last 10 years:

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
19	27	27	25	23	26	22	28	31	27	36

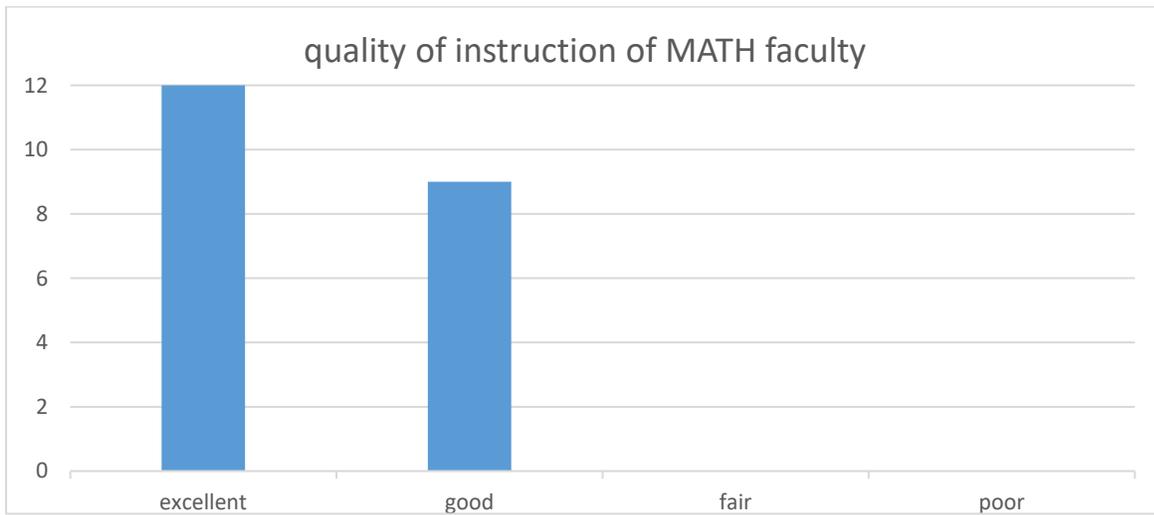
This year's number of graduates is at the highest levels as it has been in the last ten years.

One of the main assessments of our math majors occurs in the Mathematics Major Seminar (MATH 4933). This course serves as a capstone course for students in the major, and requires the completion of a written paper on a topic of mathematics. (An honors thesis can substitute for the paper.) Students are also assessed by taking a national standardized exam in mathematics, the Mathematics Field Test (MFT). [Due to the switch of instruction to remote due to COVID 19, the MFT was not assessed this year.]

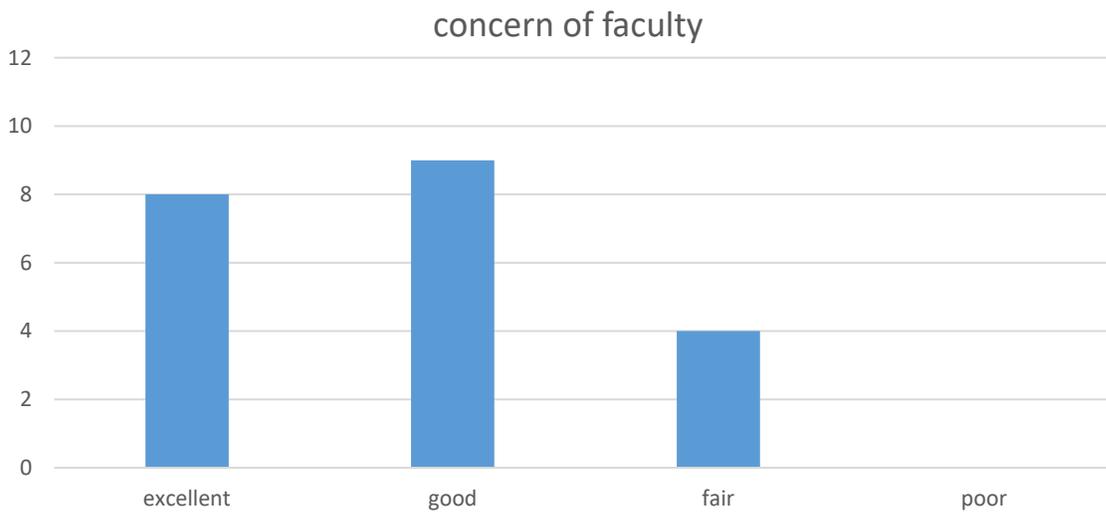
Graduating students are also assessed via an exit interview questionnaire. The following are responses for 21 students.

In the first 5 questions, students were asked to rate responses either Excellent, good, fair, or poor. The final question was the overall assessment of the department.

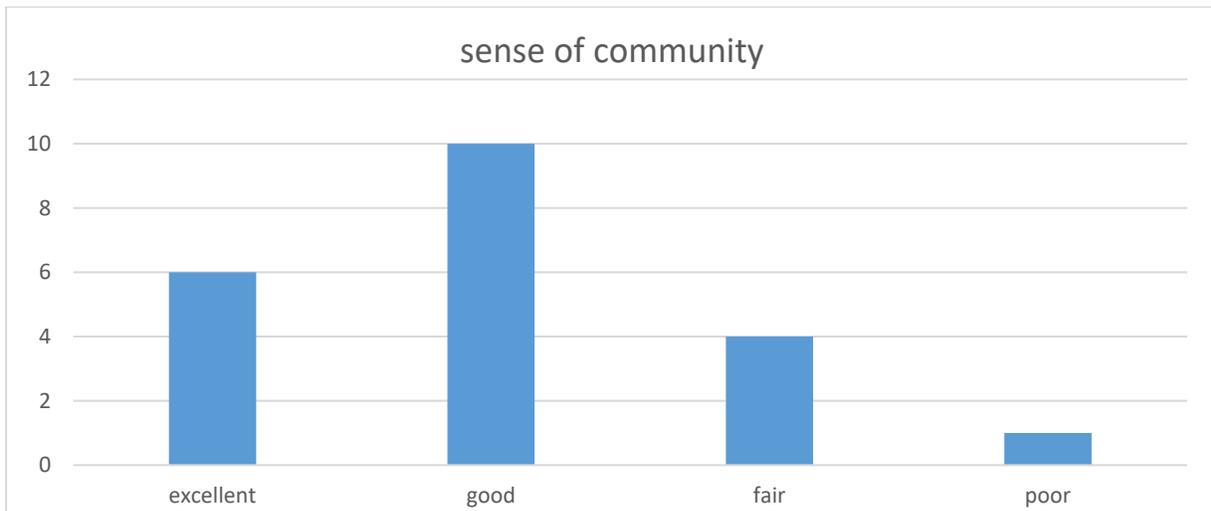
1. Quality of instruction



2. Concern of faculty towards majors



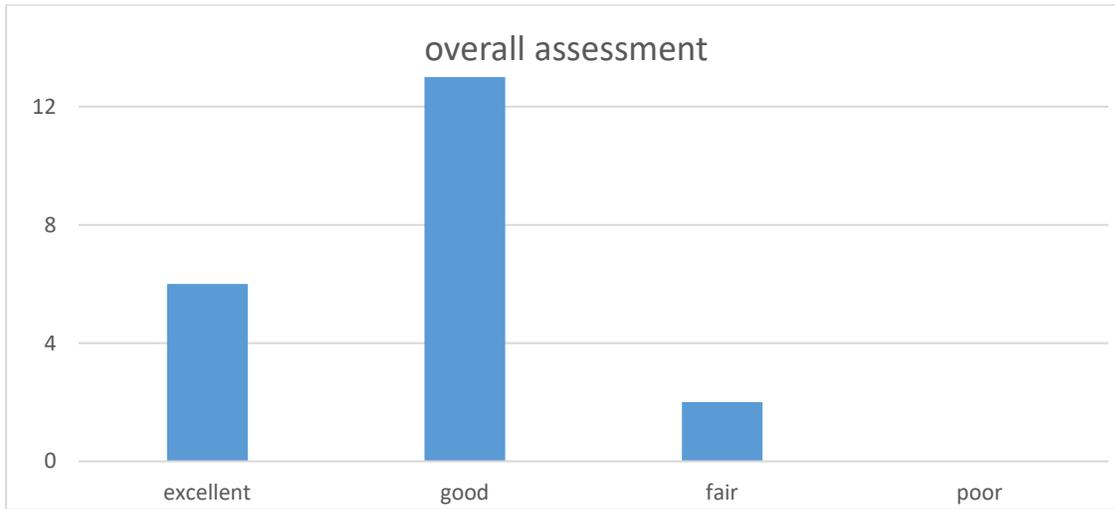
3. Sense of community



4. Quality of mathematics advising



5. Overall assessment



We find that the vast majority of students have a positive assessment of the department and the program. Our students also responded almost unanimously that they were glad they chose to be a math major.

The future plans of graduates include:

Graduate school (6)
Air Force (3)
Medical/Dental School (2)
Actuary
Data Science
Walmart
Programmer
Design School
Teach for America

M.S. degree in Mathematics

Assessment of students in our master's program is done on an on-going basis through the department's Graduate Committee's review of graduate MATH courses. In addition to course work, students are also assessed by through their overall levels of participation in department, university and professional activities; these include interdisciplinary research projects, career fairs, AWM (Association for Women in Mathematics), AWSM (Arkansas Women in Statistics and Mathematics), and Celebration of Mind.

The main assessment is the comprehensive examination. The exam is taken at the end of the students second year in the program.

According to the Office of Institutional Research and Assessment the following are the number of master's degrees in the last 10 years:

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
7	1	2	11	6	17	10	7	8	8	12*

(Two masters students graduated from the MA program, which is evaluated below.)

Ph.D. degree in Mathematics

Assessment of students in our doctoral program is done in on an on-going basis through the department's Graduate Committee's review of graduate MATH courses. The main assessments are the department's Qualifying examination, Candidacy examination, and the defense of a doctoral dissertation.

The Qualifying examination is taken after the completion of basic graduate-level course work, usually after one or two years in the program. Students have three attempts to pass the exam.

Our production of doctoral students has been mostly constant in the last few years. According to the Office of Institutional Research and Assessment the following are the number of Ph.D. degrees in the last 10 years:

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1	2	3	5	4	4	1	5	4	2	6

M.A. in Secondary Mathematics

Assessment of students in this program is done on an on-going basis through the department's Graduate Committee's review of graduate MATH courses. The main assessment is the comprehensive examination. The exam is taken at the end of the students second year in the program.

This program has only recently begun to offer the degree as an online program several years ago. Since then 6 students have thus far completed the degree program. Currently there are 6 students in the program.