

COMMITTEE RECOMMENDATION FOR
College of Natural Science and Mathematics
Department of Mathematics & Statistics Graduate Programs

STRENGTHS:

- Curricular breadth: courses are required for many other undergraduate and graduate programs as well as the General Education requirements.
- The program has been adding distance courses to meet student demand.
- Successful in research; they include students from multiple departments as collaborators.
- \$2.7m in grant funding reported since 2015.
- This is the only graduate program in Mathematics and Statistics in the state.
- The program prepares students with essential skills to enter the workforce.
- BA, PhD, and Grad Cert do not require any additional resources.

WEAKNESSES:

- There has been a reduction in staffing which leads to an inability to provide an adequate array of upper division courses (limits offerings) & makes the development of online courses challenging.
- Difficult recruitment of graduate students because of limited TA funding
- There is “leakage” to other universities as students take distance courses elsewhere.

OPPORTUNITIES:

- Increase enrollments through: expansion of distance offerings, outreach to academic partners; improvements in lower-level courses.
- New graduate certificates could lead to increased enrollment.
- Increase collaboration with Education for secondary teacher prep

THREATS:

- Budget cuts that lead to reductions in faculty and TAs
- Decreased enrollment at UAF as a whole leads to lower tuition revenue.
- There is an inability to be innovative due to the strain put on the faculty by lower numbers and increased workload.
- Elimination of graduate programs may make it more difficult for the department to attract students and faculty.

CENTRALITY TO MISSION:

- The courses offered in the department are required of virtually every student and are central to almost all programs at UAF.

INDICATORS OF QUALITY:

- The only graduate program in the field in the state.
- Program faculty are productive and collaborative in research.

- The Statistics MA has stable enrollment and the courses are utilized by many other departments.

COST-EFFECTIVENESS:

- Dean's Input states that the department is most cost-efficient in CNSM.

SCH

Metric	Detail	FY16	FY17	FY18	FY19	FY20
SCH	MATH - Lower	5986	5120	5057	4609	4006
SCH	MATH - Upper	931	1067	986	781	913
SCH	MATH - Grad	181	194	246	225	133.5
SCH	MATH - External	2650	2214	1943	1684	1402
SCH	STAT - Lower	846	756	684	594	618
SCH	STAT - Upper	407	395	401	437	482
SCH	STAT - Grad	202	208	188	243	165
SCH	STAT - External	132	145	181	99	126

Majors

Metric	Detail	FY16	FY17	FY18	FY19	FY20
Majors	MS Mathematics	9	7	8	5	3
Majors	MS Statistics	12	10	13	12	13
Majors	PHD Mathematics	3	5	6	5	5

Degrees

Metric	Detail	FY16	FY17	FY18	FY19	FY20
Degrees	MS Mathematics	3	1	4	2	0
Degrees	MS Statistics	5	4	3	3	4
Degrees	PHD Mathematics	0	0	0	1	1

FTEs

Metric	Detail	FY16	FY17	FY18	FY19	FY20
FTEs	Adjunct FTEs	3.5	2.2	1.1	1.2	0.7
FTEs	Faculty FTEs	14.4	12.9	14.7	12.6	13.4
FTEs	Staff FTEs	1.4	1.2	0.9	0.9	0.9
FTEs	Student FTEs	11.3	10.1	9.9	6.3	5.9

Expenditures

Metric	Program	Detail	FY20
Instructional Expenditures	CNSM DMS Math Bridge Program	Unrestricted	2540
Instructional Expenditures	CNSM Mathematics and Statistics	Unrestricted	2831752.6
Research Expenditures	CNSM CDR Mathematical Sciences	Designated	9498.3

Research Expenditures	CNSM CDR Mathematical Sciences	Restricted	316208
Salaries and Benefits	CNSM Mathematics and Statistics	Unrestricted	2769922.8

Mathematics MS

RECOMMENDATION:	ADDITIONAL COMMENTS:	DATE FOR FOLLOW-UP:
Continuation: 1 vote		
Continuation w/ improvement plan: 7 votes	Develop a plan to increase enrollment and graduates.	Report in two years.

Statistics MS

RECOMMENDATION:	ADDITIONAL COMMENTS:	DATE FOR FOLLOW-UP:
Continuation: 7 votes		
Continuation w/ improvement plan: 1 vote		

Mathematics PhD

RECOMMENDATION:	ADDITIONAL COMMENTS:	DATE FOR FOLLOW-UP:
Continuation w/ improvement plan: 5 votes	The current improvement plan is slow to show results; the need to increase enrollment and graduates remains.	Report in two years.
Revision or restructure: 1 vote		
Deletion: 2 votes		