MATHEMATICS (PROBABILITY AND STATISTICS) - BACHELOR OF SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1511G Calculus and Analytic Geometry I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and english. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

Some students may be able to bypass one or more courses in the calculus sequence MATH 1511G - MATH 1521G - MATH 2530G. The calculus sequence, Introduction to Higher Mathematics, and Linear Algebra provide knowledge that is basic to further work, and students are advised to complete them or their equivalent as early as possible.

	Credits	30-31
MATH 3140	Introduction to Numerical Methods	3
STAT 3110	Statistics for Engineers and Scientists	3
Either an Area III/IV: Laboratory Science Course or Social/Behavioral Sciences Course ²		3-4
MATH 2530G	Calculus III	3
MATH 2415	Introduction to Linear Algebra	3
Area IV: Social/Behavioral Sciences Course ²		3
Elective Course(s) ³		9
HNRS 2175G	Introduction to Communication Honors	
COMM 1130G	Public Speaking	
COMM 1115G	Introduction to Communication	
ACOM 1130G	Effective Leadership and Communication in Agriculture	
Choose one from the following:		
Second Year	Credits	31
Elective Course ³	- W	3
Area V: Humanities Course ²		
MATH 1521G or MATH 1521H	Calculus and Analytic Geometry II or Calculus and Analytic Geometry II Honors	4
Area VI: Creative and		3
ENGL 2215G	Advanced Technical and Professional Communication	
ENGL 2210G	Professional and Technical Communication Honors	
ENGL 2130G	Advanced Composition	
Choose one from the following:		
C S 158	R Programming I	
C S 153	Python Programming I	
Choose one from the following:		
Area III: Laboratory Se	cience Course ²	4
MATH 1511G or MATH 1511H	Calculus and Analytic Geometry I ^I or Calculus and Analytic Geometry I Honors	4
ENGL 1110G	Composition I	4
First Year		Credits

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	Total Credits	120-121
Credits		29
Elective Course(s) ^{3,6}		5
MATH/STAT Elective Course: 300/4000- level or higher (C- or better) 4,6		6
Elective Course - Upper Division ³		6
VWW - Viewing a Wider World ⁵		
OPTION Course		
MATH/STAT Elective Course: 400/4000-level 6		
Fourth Year		
	Credits	30
VWW - Viewing a Wider World ⁵		
MATH 3120	Introduction to Analysis	3
STAT 4220	Statistics: Theory and Applications	3
Elective Course - Upper Division ³		
Elective Course(s) ³		9
STAT 4210	Probability: Theory and Applications	3
MATH 1531	Introduction to Higher Mathematics	3

1 Math Placement: MATH 1511G Calculus and Analytic Geometry I is the starting Math course for the degree, however, students may need to complete any prerequisites prior to enrolling into this course.

See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses.

- 3 Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.
- 4 MATH/STAT 300/3000-level or higher courses that cannot be taken to fulfill this reg MATH 4991 Undergraduate Research, and STAT 400 Undergraduate Research.

⁵ See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/ general-education-viewing-wider-world/#viewingawiderworldtext) section for a full list of courses.

⁶ MATH/STAT 400/4000-level courses that cannot be taken to fulfill this requirement: MATH 4991 Undergraduate Research, MATH 4997 Directed Reading, STAT 400 Undergraduate Research.

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