

BS in Mathematics - Statistics Emphasis

Program Requirements

A minimum total of 120 credit hours is required for the BS in mathematics with an emphasis in statistics. In addition to meeting the requirements of the WSU General Education Program (<http://catalog.wichita.edu/undergraduate/academic-information/general-education-program/>) and the requirements of Fairmount College of Liberal Arts and Sciences, students must meet the following requirements:

Course	Title	Hours
General Education		
Select courses to meet General Education requirements ¹		34-35
College Requirements		
Select courses to complete all LAS Competency Areas ¹		24
Major Requirements		
Complete all courses in Group R ²		15
Select one course in Group C ²		3
Select 12 additional credit hours of courses in Group B which must include one of the following sequences ²		12
STAT 571 & STAT 572	Statistical Methods I and Statistical Methods II	
STAT 771 & STAT 772	Theory of Statistics I and Theory of Statistics II	
Select one additional course from Group B or C ²		3
Open Electives		
Select enough electives to reach 120 credit hours		28-29
Total Credit Hours		120

¹ Required major courses may also count towards General Education and/or LAS Competencies. Students will need to select additional electives to reach 120 credit hours required for graduation with assistance from an advisor.

² A list of courses in each group can be found at the beginning of the Mathematics section (<http://catalog.wichita.edu/undergraduate/fairmount-liberal-arts-sciences/mathematics-statistics-physics/mathematics/>).

Bachelor of Science candidates must have a higher algorithmic computer language. MATH 451 is strongly recommended. Students under this option may select statistics courses from other departments with the approval of the department of mathematics, statistics and physics.

For students who are contemplating graduate work, it is highly recommended that they include MATH 613, MATH 547 and MATH 640 in their program, along with courses in one or more of French, German or Russian.

Applied Learning

Students in the BS in mathematics – statistics emphasis program are required to complete an applied learning or research experience to graduate from the program. The requirement can be met by completing one of the following:

1. The student completes a thesis.
2. The student attends a conference and presents at least a poster.
3. The student performs outreach in the local school district.
4. The student does a presentation in a venue involving members of the community, such as the Science Expo at Keeper of the Plains,

or through participation in Math Circle, or Pi Mu Epsilon, or Math Awareness.

5. The student carries out a research project followed by a seminar presentation.