

Mathematics and Statistics

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Minors

The Minor in Mathematics

Units required: 27

Required courses:

Code	Title	Units
CSE 131	Introduction to Computer Science	3
Math 131	Calculus I	3
Math 132	Calculus II	3
Math 233	Calculus III	3
Math 309 or Math 429	Matrix Algebra Linear Algebra	3
Math 310	Foundations for Higher Mathematics (or any 400-level course with Math 310 as a prerequisite)	3
Three additional upper-level electives (any 300- or 400-level course in the Department of Mathematics & Statistics)		9
Total Units		27

The Minor in Statistics

Units required: 27

Required courses:

Code	Title	Units
CSE 131	Introduction to Computer Science	3
Math 131	Calculus I	3
Math 132	Calculus II	3
Math 233	Calculus III	3
Math 309 or Math 429	Matrix Algebra Linear Algebra	3
Math 3200 or Math 494	Elementary to Intermediate Statistics and Data Analysis Mathematical Statistics	3
Three upper-level statistics electives chosen from the list below		9
Total Units		27

Statistics electives:

Code	Title	Units
Math 3200	Elementary to Intermediate Statistics and Data Analysis	3
Math 322	Biostatistics	3
Math 420	Experimental Design	3
Math 434	Survival Analysis	3
Math 439	Linear Statistical Models	3
Math 4392	Advanced Linear Statistical Models	3
Math 459	Bayesian Statistics	3
Math 460	Multivariate Statistical Analysis	3
Math 461	Time Series Analysis	3
Math 462	Mathematical Foundations of Big Data	3
Math 475	Statistical Computation	3
Math 493	Probability	3
Math 494	Mathematical Statistics	3
Math 495	Stochastic Processes	3
Math 496	Topics in Statistics	3

Additional Information

- Students who entered Washington University **before fall 2015** should visit the Prior Bulletins (<http://bulletin.wustl.edu/prior/>) section of this *Bulletin* to view the minor requirements that were in place for the appropriate year of matriculation. These requirements can also be found from the department's undergraduate webpage (<https://math.wustl.edu/major-and-minor-details/>).
- All required courses (both lower- and upper-level courses) must be completed with a letter grade of C- or better.
- Math 318 and Math 308 cannot both be used to fulfill minor requirements.
- Courses transferred from other accredited colleges and universities with department approval can be counted, with the following caveats:
 - Courses transferred from a two-year college (e.g., a community college) cannot be used to satisfy upper-level requirements.
 - At least 6 of the upper-level units required in a minor must be earned at Washington University or in a Washington University-approved overseas study program.
 - Courses from University College cannot be used to fulfill minor requirements.
- No upper-level course used to satisfy a minor requirement can be counted toward the requirements of any other major or minor (i.e., no double-counting of courses).

6. At most one approved upper-level course from another department may be used for the upper-level courses for the minor. Approved substitutions can be found on the Department of Mathematics and Statistics webpage (<https://math.wustl.edu/major-and-minor-details/>).