

# APPLIED STATISTICS

---

Department of Mathematics (<https://cas.umw.edu/math/>)

The minor in applied statistics provides students with the necessary background for careers in statistics and its applications in diverse fields. The minor is open to students from all majors. It offers an opportunity for students to develop the skills expected of entry-level statistical analysts; equipping them with the tools to help companies, organizations, political campaigns and businesses to better anticipate and manage variation.

## Minor Requirements

A minimum of fifteen (15) credits are required.

Code	Title	Credits
STAT 280	Statistical Methods	3
STAT 320	Applied Regression Analysis	3
STAT 420	Applied Multivariate Statistics	3
Select 6-7 credits of the following:		6-7
DATA 401	Applied Machine Learning	
DATA 402	Analytics Applications and Development	
DATA 419	Data Mining	
ECON 462	Advanced Economic Analysis	
MKTG 411	Marketing Research	
PSYC 360A	Advanced Statistics for Psychology	
SOCG 364	Quantitative Research Methods and Analysis	
STAT 381	Probability and Statistical Inference	
STAT 382	Probability and Statistical Inference	
STAT 491	Directed Study <sup>1</sup>	
<b>Total Credits</b>		<b>15-16</b>

<sup>1</sup> Or equivalent 3-credit research experience in statistics to be approved by the Chair of the Department of Mathematics.

## Mathematics Faculty

Julius N. Esunge, Chair  
 Randall D. Helmstutler, Career Advisor for Pure Mathematics  
 Jangwoon Lee, Career Advisor for Applied Mathematics  
 Debra L. Hydorn, Career Advisor for Statistics

### Professors

Julius N. Esunge  
 Debra L. Hydorn  
 Janusz Koniczny  
 Jangwoon Lee  
 J. Larry Lehman  
 Keith E. Mellinger  
 Suzanne Sumner

### Associate Professors

Melody B. Denhere  
 Randall D. Helmstutler

### Senior Lecturers

Jennifer M. Magee  
 Kelly W. Perkins