

# Statistics and Data Science, BS-PreCalculus

## 4-Year Pathway 2025/26 - 2029/30

<b>Fall Freshman Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b> 15	<b>Requirements Met</b> GE/UR/Major
<b>MATH 130*</b>	Precalculus	5	Area 2, major
FYS 143, 145, 147 or 148 or Any Approved Course	Any First Year Seminar with GE	3	e.g FYS + Area 3B
HCOM 120, HCOM 125 or Any Approved Course	English Composition GE	3	Area 1A
ENVS 201 or Any Approved Course	Biological Science (with Lab) GE	4	Area 5B & 5C
<b>Spring Freshman Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b> 14	<b>Requirement Met</b> GE/UR/Major
<b>MATH 150</b>	Calculus I	4	Major
<b>MATH 170</b>	Discrete Mathematics	4	Major
HCOM 110 or Any Approved Course	Oral Communication GE	3	Area 1C
SL 210S, HCOM 260S or Any Approved Course	Civics/Service Learning GE	3	Area 4, US2&3
<b>Fall Sophomore Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b> 15	<b>Requirement Met</b> GE/UR/Major
<b>MATH 151</b>	Calculus II	4	Major
<b>MATH 230</b> (fall only)	Elementary Linear Algebra	3	Major
<b>MATH 320</b> (fall only)	Applied Probability & Statistics	4	Major
<b>CST 231 or CST 319</b>	Option for Computing Course	4	Major
<b>Spring Sophomore Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b> 14	<b>Requirement Met</b> GE/UR/Major
<b>STAT 210</b> (spring only)	Statistical Computing with R	1	Major
<b>MATH 250</b> (spring only)	Multivariate Calculus	4	Major
BIO 131, HCOM 200 or Any Approved Course	Critical Thinking GE	3	Area 1B
CART 231, VPA 205 or Any Approved Course	Arts GE	3	Area 3A
ENVS 282, GEOL 110 or Any Approved Course	Physical Science GE	3	Area 5A
<b>Fall Junior Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b>	<b>Requirement Met</b> GE/UR/Major
<b>MATH 300</b> (fall only)	Major Proseminar	3	GWAR, Major
<b>STAT 310</b> (fall only)	Data Visualization	3	Area 2 UDGE
<b>STAT 330</b> (even years), <b>335</b> (odd years), <b>or other option</b>	STAT elective #1	4	Major
HCOM 229, HOSP 211 OR Any Approved Course	Ethnic Studies GE	3	Areas 6

HCOM 274, HCOM 265 OR Any Approved Course	US History GE	3	Area 4A, US1
<b>Spring Junior Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b>	<b>Requirement Met</b> GE/UR/Major
<b>MATH 362S</b> (spring only)	Svc Lrn for Math/Stat Consultants	4	UDSL, Major
<b>STAT 410</b> (spring only)	General Linearized Models	4	Major
<b>STAT 320</b> (even years) <b>or 325</b> (odd years), <b>or other option</b>	STAT elective #2	4	Major
HCOM 343 or Any Approved Course	UD Area 4 Social and Behavioral Sciences GE	3	Area 4 UDGE
<b>Fall Senior Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b>	<b>Requirement Met</b> GE/UR/Major
<b>STAT 420</b> (fall only)	Statistical Theory I	4	Major
<b>STAT 211,330,335,440 MATH 322,374,375,420 or Approved Minor Course</b>	MATH/STAT Elective #1 not taken previously	4	Major
SPAN 350 or JAPN 350 or Any Approved Course	UD C with World Culture & Languages GE	3	Area 3 UDGE WCL
<b>Elective or Minor Course</b>		4	
<b>Spring Senior Courses</b> Course Prefix and Number	<b>Course Title</b> Abbreviate Course Title	<b>Units</b>	<b>Requirement Met</b> GE/UR/Major
<b>STAT 400</b>	Statistics and Data Science Capstone Seminar	4	Major
<b>STAT 421</b> (spring only)	Statistical Theory II	4	Major
<b>STAT 320,325, MATH 330,374,375,421 or Approved Minor Course</b>	MATH/STAT Elective #2 not taken previously	4	Major
<b>Elective or Minor Course</b>		4	

**\*Students must complete an online placement to enroll in MATH 150. Contact the MATH advisor for information about the Calculus placement.**

**\*Students who start in Precalculus will replace elective units with MATH 130: Precalculus (5 units)**

## Approved Minors

Mathematics Minor (recommended courses included on Specialization list)

Computer Science Minor (recommend CST 238, 383, and 463)