Statistics and Data Science, BS

4-Year Pathway 2025/26 - 2029/30

FYS 143, 145, 147 or 148 or Any Approved Course HCOM 120, HCOM 125 or Any Approved Course HCOM 229, HOSP 211 OR Any Approved Course HCOM 229, HOSP 211 OR Any Approved Course HCOM 229, HCOM 265 OR Any Approved Course Spring Freshman Courses Course Prefix and Number MATH 151 Calculus II Discrete Mathematics HCOM 110 or Any Approved Course Course Prefix and Number Course Biological Science (with Lab) GE Fall Sophomore Courses Course Prefix and Number CST 231 or CST 319 Approved Course Spring Sophomore Course Course Prefix and Number CST 231 or CST 319 CST 23				
FYS 143, 145, 147 or 148 or Any Approved Course HCOM 120, HCOM 125 or Any Approved Course HCOM 229, HOSP 211 OR Any Approved Course HCOM 229, HOSP 211 OR Any Approved Course HCOM 229, HCOM 265 OR Any Approved Course Spring Freshman Courses Course Prefix and Number MATH 151 Calculus II Discrete Mathematics HCOM 110 or Any Approved Course Course Prefix and Number Course Biological Science (with Lab) GE Fall Sophomore Courses Course Prefix and Number CST 231 or CST 319 Approved Course Spring Sophomore Course Course Prefix and Number CST 231 or CST 319 CST 23				
Approved Course HCOM 120, HCOM 125 or Any Approved Course HCOM 229, HOSP 211 OR Any Approved Course HCOM 229, HOSP 211 OR Any Approved Course HCOM 274, HCOM 265 OR Any Approved Course Spring Freshman Courses Course Prefix and Number Abbreviate Course Title Abbreviate Course Title Abra Statistics Course Prefix and Number ACICULUS II ACICULU	MATH 150	Calculus I	4	Area 2, major
HCOM 120, HCOM 125 or Any Approved Course Approved Course Ethnic Studies GE 3 Area 1A Approved Course HCOM 229, HOSP 211 OR Any Approved Ethnic Studies GE 3 Area 6 Course HCOM 274, HCOM 265 OR Any Approved Course HCOM 274, HCOM 265 OR Any Approved Course Spring Freshman Courses Course Title Abreviate Course Title 4 Major MATH 151 Calculus II 4 Major MATH 170 Discrete Mathematics 4 Major HCOM 110 or Any Approved Course Biological Science (with Lab) GE 4 Area 58 & 5C Course Prefix and Number Abreviate Course Title Wajor MATH 320 (fall only) Elementary Linear Algebra 3 Major MATH 320 (fall only) Elementary Linear Algebra 3 Major MATH 320 (fall only) Applied Probability & Statistics 4 Major GET 213 or CST 319 Option for Computing Course 4 Major SL 210S, HCOM 260S or Any Approved Course Course Title Abreviate Course Titl	FYS 143, 145, 147 or 148 or Any	Any First Year Seminar with GE	3	e.g FYS + Area 3B
Approved Course HCOM 229, HOSP 211 OR Any Approved Course HCOM 274, HCOM 265 OR Any Approved Course HCOM 274, HCOM 265 OR Any Approved Course Spring Freshman Courses Course Prefix and Number Abbreviate Course Title Abreviate Course Title Course Prefix and Number Calculus II Area 4A, US1 Abreviate Course Title Abreviate Course Title Course Prefix and Number Calculus II Anajor Area 1C Area 5B & 5C Fall Sophomore Course Biological Science (with Lab) GE Area 5B & 5C Fall Sophomore Courses Course Title Course Prefix and Number Abreviate Course Title Abreviate Course Title Abreviate Course Course Title Course Title Course Title Course Title Course Title Abreviate Course Abreviate Course Course Title Abreviate Course Abreviate Course Title Abreviate Course Title Course Prefix and Number Abreviate Course Title Abreviate Course Title Approved Course Course Title Approved Course Course Title Abreviate Course Title Approved Course Course Title Approved Course Course Title Approved Course Course Title Approved Course Approved Course Course Title Approved Course Course Title Approved Course Approved Course Course Title Approved Course Course Title Approved Course Approved Course Course Title Approved Course Course Title Approved Course Approved Course Course Title Approved Course Approved Course Approved Course Course Title Approved Course Approve	Approved Course			
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Course HCOM 274, HCOM 265 OR Any Approved Course Spring Freshman Courses Course Prefix and Number Course Prefix and Number Course Title Abbreviate Course Title Abbreviate Course Title MATH 151 Calculus II 4 Major MATH 170 Discrete Mathematics 4 Major HCOM 110 or Any Approved Course Biological Science (with Lab) GE Fall Sophomore Courses Course Prefix and Number Course Title Abbreviate Course Title Course Title Course Title Units Acrea 58 & 5C Fall Sophomore Courses Course Title Abbreviate Course Title Course Title Course Title Abbreviate Course Title Course Ti	Approved Course			
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Approved Course Spring Freshman Courses Course Prefix and Number Abbreviate Course Title Abgreviate Course Title Course Prefix and Number MATH 230 (fall only) Applied Probability & Statistics Abgreviate Course Approved Course Course Title Abgreviate Course Title Abgreviate Course Title Abgreviate Course Title Abgreviate Course Applied Probability & Statistics Applied Probability & Statistics Aggreviate Course Approved Course Course Title Abgreviate Course Approved Course Course Title Abgreviate Course Title Abgreviate Course Approved Course Course Title Abgreviate Course Approved Course Course Title Abgreviate Course Approved Course Course Title Approved Course Area 3A Area 3A Area 3A Area 3A Area 3A Area 3A Area 5A Approved Course Course Title Approved Course Course Title Approved Course Course Title Approved Course Approved Course Course Title Approved Course Approved Course Approved Course Approved Course Course Title Approved Course Course Title Approved Course App	Course			
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MATH 151 Calculus II Discrete Mathematics 4 Major MATH 170 Discrete Mathematics 4 Major HCOM 110 or Any Approved Course ENVS 201 or Any Approved Course Biological Science (with Lab) GE Fall Sophomore Courses Course Title Abbrevlate Course Title MATH 230 (fall only) MATH 230 (fall only) MATH 230 (fall only) STAT 210 (spring only) BIO 131, HCOM 200 or Any Approved Course CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Course Title Abbrevlate Course Title Course Title Abbrevlate Course Course Title Abbrevlate Course Course Title Approved Course Course Title Abbrevlate Course Title Abarca ABar	Approved Course			
MATH 170 Discrete Mathematics Coral Communication GE ENVS 201 or Any Approved Course Biological Science (with Lab) GE Fall Sophomore Courses Course Title Abbreviate Course Title Abbreviate Course Title Abproved Course MATH 230 (fall only) Elementary Linear Algebra Area 31 Area 4, US283 Approved Course Spring Sophomore Courses Course Title Abpreviate Course Title Abpreviate Course Course Title Abproved Course Course Title Abproved Course Course Title Abproved Course Course Title Abproved Course Course Title Applied Probability & Statistics A Major Major Major Area 4, US283 Area 4, US283 Area 4, US283 Area 4, US283 Area 19 Approved Course Course Title Abbreviate Course Title Abproved Course Course Title Abproved Course Course Title Approved Course Course Title Approved Course Course Title Approved Course Critical Thinking GE Area 1B Area 1B Area 3A Area 3A Area 5A Area 5A Area 5A Area 5A Area 5A Area 70 Area 18 Area 5A Area 5A Area 5A Area 5A Area 5A Area 70 Area 5A Area 5A Area 5A Area 70 Area 5B & 5C Area 1B Approved Course Course Title Approved Course Course Area 3A Area 5A Area 2 UDGE				
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ENVS 201 or Any Approved Course Fall Sophomore Courses Course Prefix and Number MATH 230 (fall only) Elementary Linear Algebra Applied Probability & Statistics Approved Course Spring Sophomore Courses Course Title Abbreviate Course Title Abbreviate Course Spring Sophomore Courses Course Title Abbreviate Course Title Abbreviate Course Spring Sophomore Course Course Title Abbreviate Course Title Abbreviate Course Title Abbreviate Course Approved Course The Course Title Abbreviate Course Title Approved Course Title Abbreviate Course Area 3A Area 3A Area 3A Area 5A Ar	MATH 170	Discrete Mathematics	4	Major
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MATH 320 (fall only) Applied Probability & Statistics 4 Major CST 231 or CST 319 Option for Computing Course 4 Major SL 210S, HCOM 260S or Any Approved Course Spring Sophomore Courses Course Title Abbreviate Course Title Abbreviate Course Title Approved Course STAT 210 (spring only) Multivariate Calculus Fall Junior Course Course Title Approved Course Course Title Approved Course Course Title Approved Course Course Title Abbreviate Course Approved Course Course Title Approved Course Course COURSE Course Title Approved Course Course Title Approved Course Course Title Approved Course Course Course Title Approved Course Approved Course Course Title Approved Course Course Title Approved Course Approved Course Approved Course Course Title Approved Course Approved Course Approved Course Approved Course Course Title Approved Course Approved C				
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SL 210S, HCOM 260S or Any Approved Course Spring Sophomore Courses Course Title Abbreviate Course Title (STAT 210 (spring only) Approved Course MATH 250 (spring only) BIO 131, HCOM 200 or Any Approved Course CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Title Abbreviate Course Title Abbreviate Course Title Course Title Abbreviate Course Title Course Title Abbreviate Course Title Abbreviate Course COURSE COURSE TITLE Abbreviate Course Abbrev	MATH 320 (fall only)	Applied Probability & Statistics	4	Major
Approved Course Spring Sophomore Courses Course Title Abbreviate Course Title STAT 210 (spring only) Statistical Computing with R Major MATH 250 (spring only) BIO 131, HCOM 200 or Any Approved Course CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Title Abbreviate Course T	CST 231 or CST 319	Option for Computing Course	4	Major
Spring Sophomore Courses Course Prefix and Number STAT 210 (spring only) Statistical Computing with R Major MATH 250 (spring only) BIO 131, HCOM 200 or Any Approved Course CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Title Abbreviate Calculus Course Title Abbreviate Calculus Arts GE Area 3A Area 3A Area 3A Area 5A Physical Science GE Sourse Title Abbreviate Course Title Abbreviate	SL 210S, HCOM 260S or Any	Civics/Service Learning GE	3	Area 4, US2&3
Course Prefix and Number Abbreviate Course Title STAT 210 (spring only) Statistical Computing with R 1 Major MATH 250 (spring only) Multivariate Calculus 4 Major BIO 131, HCOM 200 or Any Approved Course CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Title Abbreviate	Approved Course			
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MATH 250 (spring only) BIO 131, HCOM 200 or Any Approved Course CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Course Title Course Prefix and Number Major Multivariate Calculus 4 Major Area 1B Area 1B Area 3A Area 3A Area 3A Physical Science GE Units GE/UR/Major MATH 300 (fall only) Major Proseminar Major Major	STAT 210 (spring only)	Statistical Computing with R	1	Major
Approved Course CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Prefix and Number MATH 300 (fall only) Major Proseminar STAT 310 (fall only) Arts GE 3 Area 3A Area 3A Area 5A Units GE/UR/Major Requirement Met GE/UR/Major 3 GWAR, Major Area 2 UDGE	MATH 250 (spring only)	Multivariate Calculus	4	Major
CART 231, VPA 205 or Any Approved Course ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Prefix and Number MATH 300 (fall only) Major Proseminar STAT 310 (fall only) Arts GE 3 Area 3A 3 Area 3A 4 Area 3A Area 3A Area 5A Units Requirement Met GE/UR/Major 3 GWAR, Major Area 2 UDGE	BIO 131, HCOM 200 or Any	Critical Thinking GE	3	Area 1B
Approved Course ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Prefix and Number MATH 300 (fall only) Major Proseminar STAT 310 (fall only) Physical Science GE 3 Area 5A Units Requirement Met GE/UR/Major 3 GWAR, Major 3 Area 2 UDGE	Approved Course			
ENVS 282, GEOL 110 or Any Approved Course Fall Junior Courses Course Prefix and Number Math 300 (fall only) Major Proseminar STAT 310 (fall only) Physical Science GE 3 Area 5A Units Requirement Met GE/UR/Major 3 GWAR, Major 3 Area 2 UDGE	CART 231, VPA 205 or Any	Arts GE	3	Area 3A
Approved Course Fall Junior Courses Course Prefix and Number MATH 300 (fall only) Major Proseminar STAT 310 (fall only) Data Visualization Course Title Abbreviate Course Title 15 Requirement Met GE/UR/Major 3 GWAR, Major 3 Area 2 UDGE	Approved Course			
Fall Junior Courses Course Prefix and NumberCourse Title Abbreviate Course TitleUnits 15Requirement Met GE/UR/MajorMATH 300 (fall only)Major Proseminar3GWAR, MajorSTAT 310 (fall only)Data Visualization3Area 2 UDGE	ENVS 282, GEOL 110 or Any	Physical Science GE	3	Area 5A
Course Prefix and NumberAbbreviate Course Title15GE/UR/MajorMATH 300 (fall only)Major Proseminar3GWAR, MajorSTAT 310 (fall only)Data Visualization3Area 2 UDGE	Approved Course			
STAT 310 (fall only) Data Visualization 3 Area 2 UDGE				
	MATH 300 (fall only)	Major Proseminar	3	GWAR, Major
STAT 330 (even years), 335 (odd STAT elective #1 4 Major	STAT 310 (fall only)	Data Visualization	3	Area 2 UDGE
	STAT 330 (even years), 335 (odd	STAT elective #1	4	Major

years), or other option			
Elective or Minor Course		4	
Spring Junior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units 15	Requirement Met GE/UR/Major
MATH 362S (spring only)	Svc Lrn for Math/Stat Consultants	4	UDSL, Major
STAT 410 (spring only)	General Linearized Models	4	Major
STAT 320 (even years) or 325 (odd years), or other option	STAT elective #2	4	Major
HCOM 343 or Any Approved Course	UD Area 4 Social and Behavioral Sciences GE	3	Area 4 UDGE
Fall Senior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units 15	Requirement Met GE/UR/Major
STAT 420 (fall only)	Statistical Theory I	4	Major
STAT 211,330,335,440 MATH 322,374,375,420 or Approved Minor Course	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
Elective or Minor Course		4	
Spring Senior Courses Course Prefix and Number	Course Title Abbreviate Course Title	Units 16	Requirement Met GE/UR/Major
STAT 400	Statistics and Data Science Capstone Seminar	4	Major
STAT 421 (spring only)	Statistical Theory II	4	Major
STAT 320,325, MATH 330,374,375,421 or Approved Minor Course	MATH/STAT Elective #2 not taken previously	4	Major
Elective or Minor Course		4	

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

Approved Minors

Mathematics Minor (recommended courses included on Specialization list) Computer Science Minor (recommend CST 238, 383, and 463)

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