

SHU Program Courses: 26 Credit HoursENV 110 Introduction To Environmental Science 4 credit hoursENV 122 Geology 4 credit hoursENV 141 Climatology 3 credit hoursENV 152 Oceanography 3 credit hoursENV 395 Junior Seminar In Environmental Science I 1 credit hoursENV 396 Junior Seminar In Environmental Science II 1 credit hoursENV 450 Terrestrial Ecology & Field Biology 4 credit hoursENV 451 Fresh Water Ecology and Field Biology 4 credit hoursENV 495 Senior Seminar I 1 credit hoursENV 496 Senior Seminar II 1 credit hours**SHU Cognate Requirements: 35 Credit Hours**BIO 141 Basic Concepts Of The Cell 4 credit hoursBIO 241 Animal Biology 4 credit hoursCHE 141 General Chemistry I 4 credit hoursCHE 142 General Chemistry II 4 credit hoursCHE 350 Analytical Chemistry 4 credit hoursCHE 441 Physical-Instrumental Analysis 4 credit hoursPHY 141 General Physics I (Non-Calculus Based) 4 credit hours

and

PHY 142 General Physics II (Non-Calculus Based) 4 credit hours

or

PHY 161 Physics I (Calculus Based) 4 credit hours

and

PHY 162 Physics II (Calculus Based) 4 credit hoursTSD 101 Fundamentals Of Speech Communication 3 credit hours**Calvin Equivalents: 32 credit hours Credits**

ENST 210 4

GEO 151/151L 4

GEO 250/250L 4

GEO 251/251L or GEO 252/252L 4

ENST 301 2

ENST 302 2

BIO 344/344L 4

BIO 346/346L 4

waive 0

GEO 395 4

Calvin Equivalents: 32 credit hours Credits

BIO 160/160L + BIO 161/161L 8

CHEM 101/101L 4

CHEM 102/102L 4

CHEM 210/210L 4

NA 0

PHYS 221/221L 4

PHYS 222/222L 4

PHYS 130/130L + PHYS 131/131L 4

PHYS 133/133L 4

COMM 101 4

Choose one (1) sequence: 6-8 Credit Hours[MAT 174 Data Analysis And Statistics 3 credit hours](#)[MAT 244 Statistical Analysis And Design 3 credit hours](#)

or

[MAT 181 Calculus With Analytic Geometry I 4 credit hours](#)[MAT 182 Calculus With Analytic Geometry II 4 credit hours](#)**waive**

STAT 143 or STAT 145

Credits

4

MATH 132

4

4

Choose One (1) of the following options**Biology Option: 16 Credit Hours**[BIO 242 Plant Biology 4 credit hours](#)[BIO 341 Entomology 4 credit hours](#)[BIO 342 Genetics 4 credit hours](#)[BIO 360 Microbiology 4 credit hours](#)**12 Credits from:**

BIO 332/332L 4

BIO 342/341L 4

GEO 313/3131L 4

BIO 345/345L 4

BIO 338/338L 4

BIO 364 4

BIO 231 2

BIO 232 2

Bio 372 2

Bio 336 4

Chemistry Option: 11 Credit Hours[CHE 241 Organic Chemistry I 4 credit hours](#)[CHE 242 Organic Chemistry II 4 credit hours](#)[CHE 341 Physical Chemistry I 3 credit hours](#)**12 Credits**

CHEM 241/241L 4

CHEM 242/242L 4

CHEM 351/351L 4

Environmental Management: 11 Credit Hours

ENV 342 Ecological Design and Industrial Ecology 3 credit hours

ENV 380 Environmental Certifications 2 credit hours

Safety Training *

Hazardous Materials Transportation

RCRA Hazardous Waste Generator

Stormwater Operator

ISO 14001

ENV 441 Environmental Regulations 3 credit hours

ENV 452 Hydrogeology 3 credit hours

Total for Major: 76-83 Credit Hours

12 Credits from:

GEO 260	4
ENST 285	2
GEO 361	4
GEO 215/215L	4
GEO 325/325L	4
GEO 252/252L	4

80 credits