				THE U	J <b>NIVE</b>	RSITY	OF R	HODE ISLAND		
Environme	ntal Scie	nce & Ms	anage	ement				Student:		
EL_ESMG								Student ID:		
120 Earned Credits Total					Advisor:					
web.uri.edu										
Environment technologies, field techniqu sciences and of more specialii URI that may Science; Wild minor), and R General Edu single course	wetland e tes that un exposure t zed study serve as f llife and C testoration cation Gu may meet ). No more	cology, wi derpin env o a broad a at the grad ocus areas Conservatio Science a iidelines: O more than e than twel	ildlife vironm array of luate lo for stoon Bio and Ma	biology, soil mental assessment of subject material evel. There a sudents in the logy, Global anagement (in all education routcome, but odits can have	science, for the science of the science, for the science of the science of the science of the science of the same	orestry, ar storation g to envir minor fie ental Scie ources (in nental mi credits. I double co	d land us This is a commental ds of stud nce and M aterdepart nor). Each of th unted tow de (note-	ent incorporates course work in water resourse/environmental quality relationships. Course comprehensive major that includes a backg science and management. This major provided available within the Department of Natural Anagement major: GIS/Remote Sensing; Somental minor), International Development (e.g., the sense of the sense	nework emphasize round in the bales preparation al Resources Soil-Environment interdepartment at least 3 cred must be a Gran	sizes the asic a for cience at ntal ntal its. A
LIST COU	RSES TI	HAT ME	ET G	ENERAL I	EDUCAT	ION.	1	LIST COURSE AS EACH OUTCOM	E IS MET:	
LIST COU				Credit Cou		ION.	Ĺ	General Education Outcom		
Δ				ore than 12 or			- 1	General Education Outcom	Course	Grade
		-		ourse code	reuns		Ī	KNOWLEDGE	Course	Graue
Course		Grade		Course	Credit	Grade	_	A1. STEM		Τ
*NRS100	3	Grade	-	Course	Credit	Grade	<u> </u>	A2. Social & Behavioral Sciences		
*BIO101	3		F				-	A3. Humanities		
*BIO103	1		-				_	A4. Arts & Design		
*BIO102	3		-					COMPETENCIES		
*BIO104	1		-				_	B1. Write effectively		Τ
*CHM101	3		-				<u> </u>	<b>B2.</b> Communicate effectively		
*EEC105	3		-				<u> </u>	<b>B3.</b> Mathematical, statistical, or		1
*GEO103	4		-					computational strategies		
*MTH131	3		-					B4. Information literacy		
WITITIO			-					RESPONSIBILITIES		
			-					C1. Civic knowledge & responsibilities		I
			7	Total Gen			<b> -</b>	C2. Global responsibilities		1
				Ed Credits			_	C3. Diversity & Inclusion		
				Eu Cicuits			_	INTEGRATE & APPLY		
							_	D1. Ability to synthesize		I
NOTE: BECA	USE MOS	T COURSI	ES ME	EET MORE T	HAN ONE	ED	_	GRAND CHALLENGE		
OUTCOME, Y BEFORE YOU	I REACH	VOUR 40 (	CRED	MIGHT BE C	ER VOII	ED MUST	_	G. At least one course of your 40		I
STILL COMP						WICSI		credits is an approved "G" course		
						4	-	**	2000 0 1011 - 41	G2 C
*course fulf	ilis gener	ai educan	ion an	ia a major re	equiremen	ll		*Note: NRS450G/452G fulfills D1,G; NRS3. NRS234G fulfills A1,G.	30G juljilis A1	,C2,G;
_	ımulative			-	_			cess: Must have completed at least 24 c ty College major advisor.	redits with a	

Effective: 2022 - 2023

#### THE UNIVERSITY OF RHODE ISLAND

### **Environmental Science and Management** EL ESMG BS

120 Earned Credits Total

Intro to URI & NRS (2 credits)					
Course	Semester	Credits	Grade		
URI 101		1			
NRS 101		1			
Intro. Profession	nal Courses (1	19 credits)			
Course	Semester	Credits	Grade		
*EEC 105		3			
*GEO 103		4			
*NRS 100		3			
NRS 200		1			
NRS 212		4			
NRS 223		4			
Basic Sciences (	25-27 credits	)			
Course	Semester	Credits	Grade		
*BIO 101, *103		4			
*BIO 102, *104		4			
*CHM 101, 102		4			
CHM 112, 114 (4); <b>Or</b> *CMB 211 (4); <b>Or</b> CMB 311 (3)					
CHM 124, 126		4			

#### Notes regarding math & chemistry:

\*MTH 131

STA 308 (4); Or STA 409 (3)

1) The prereq. for MTH131 is MTH103 or 111. Students interested in taking MTH141 (w/advisor approval) should take MTH111 prereq. instead of 103. 2) CHM112/114 recommended. Students opting to take CMB211 or 311 (prereq is 2 semesters of CHM), must first complete CHM124/126.

3

Free Electives
Courses taken beyond the requirements of the major and general education

reach the 120 credits required for graduation

Course	Semester	Credits	Grade

#### **Experiential Learning Courses**

Up to 15 credits of Experiential Learning Courses may be taken. A maximum of 6 credits of Letter Grade courses (in italics below) may be taken for Concentration credit; both Letter Grade courses and S/U courses may be used

as Supporting Electives.	
NRS 395 Research Apprenticeship	1-3
NRS 397 Internship	1-6
NRS 491/492 Special Projects	1-3
NRS 495 Advanced Apprenticeship	3 or 6
NRS 497 Cooperative Internship	6-12
NRS 498 Teaching Practicum	1-3
NRS 499 Senior Thesis	6

\*Courses approved for general education.

Student:	
Student ID:	
Advisor:	

#### **Concentration Courses (24 credits)**

Select at least 3 credits from each of the five categories below. To reach 24 credits, select remaining concentration credits from any of the five categories below, or from Letter Grade Experiential Learning Courses (up to 6 credits). See box below for Letter Grade (e.g. not S/U) Experiential Learning Courses.

1. Biological or Ecological Sciences (minimum 3 credits)					
Course	Semester	Credits	Grade		
NRS 401		4			
NRS 417		4			
NRS 423		4			
BIO 455, 457		3, 1			

2. Watersheds & Environmental Quality (minimum 3 credits)					
Course	Semester	Credits	Grade		
NRS 412		3			
NRS 432		4			
NRS 426		3			
NRS 461		4			

3. Methods in Environmental Science (minimum 3 credits)					
Course	Semester	Credits	Grade		
NRS 409		4			
NRS 410		3			
NRS 415		3			
NDC 471		4			

4. Natural Resources Management (minimum 3 credits)					
Course	Semester	Credits	Grade		
NRS 305		3			
*NRS 330G A1,C2,G		3			
NRS 406		4			
NRS 407		3			

5. Land Use Management (minimum 3 credits)					
Course	Semester	Credits	Grade		
NRS 301		3			
NRS 445		4			
*NRS 450G, 452G <i>D1,G</i>		3, 1			

List below any Exp. Learning Concentration Courses (max 6 cr)					
Course	Semester	Credits	Grade		

#### **Supporting Electives (18 credits)**

At least 9 credits must be NRS courses. Courses may be chosen from: a) the supporting elective list - attached; b) Concentration courses not used for Concentration; or c) up to 9 cr. of Letter Grade or S/U Experiential Learning Courses-see box. NRS 480 Sr. Colloquium (2 cr) is strongly recommended.

Course	Semester	Credits	Grade

Minimum 2.0 GPA required in major for graduation.

Minimum 2.0 cumulative GPA required for graduation.

## B.S. Environmental Science and Management - Effective Fall 2022 College of the Environment and Life Sciences

#### **Environmental Science and Management Supporting Electives**

Environmental Science and Management students are required to select 18 credits of Supporting Electives. At least 9 credits must be NRS courses. Courses may be chosen from: a) the following list; b) Concentration courses not used for concentration credit; or c) any NRS Experiential Learning Courses. Additional courses at or above the 300 level from CELS, Engineering, GSO, and A&S may qualify as supporting electives with advisor permission.

Proporting Electives  NRS 538 Physiolog Ecology of Wild Terrestrial Vertebrates (3)  NRS 555 Applied Coastal Ecology (2)  NRS 567 Soil Genesis and Classification (3)  NRS 568 Recent Advances in NRS (3)  BES 532 Advanced Conservation Biology (3)
NRS 555 Applied Coastal Ecology (2) NRS 567 Soil Genesis and Classification (3) NRS 568 Recent Advances in NRS (3) BES 532 Advanced Conservation Biology (3)
NRS 567 Soil Genesis and Classification (3) NRS 568 Recent Advances in NRS (3) BES 532 Advanced Conservation Biology (3)
NRS 568 Recent Advances in NRS (3) BES 532 Advanced Conservation Biology (3)
BES 532 Advanced Conservation Biology (3)
BIO 262 Introductory Ecology (4)
BIO 263 Introduction to Ecological Data Analysis (1)
BIO 321 Plant Diversity (4)
BIO 354 Invertebrate Zoology (4)
BIO 366 Vertebrate Biology (3)
BIO/ENT 385 Introductory Entomology (3)
BIO 467 Animal Behavior (3)
*GEO 204 Earth History (4) A1, B1
*GEO 210 Landforms: Origin and Evolution (4) B2
GEO 272 Intro Evolution (4)
*GEO 305G Global Climate Change (4) D1, G
GEO 450 Intro to Sedimentary Geology (4)
GEO/NRS 482 Innovative Subsurface Remediation Tech. (4)
GEO 483 Hydrogeology (4)
GEO/NRS 484 Environmental Hydrogeology (4)
MAF 465 GIS Applications in Coastal Mgmt (3)
MAF 496 International Development Seminar (3)
PLS 306 Landscape Mgmt. and Arboriculture (4)
porting Electives
MAF 415 Marine Pollution Policy (3)
MAF 450 International Development in Practice (1-6)
MAF 461 Coastal Zone Management (3)
MAF 484 Environ Analysis Policy Coastal Mgmt (3)
*PSC 402 Environmental Policy and Politics (4) D1
PSC 403 Global Ecopolitics (4)
WRT 303 Public Writing (4)
WRT 304 Writing for Comm. Service (4)
*WRT 332 Technical Writing (3) B1, B2
*WRT 334 Science Writing (3) B1, B2
ing Electives
EVS 366 Communicating Env. Research & Outreach (2)

<sup>\*</sup>Courses approved for general education.

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# B.S. Environmental Science and Management - Effective Fall 2022 College of the Environment and Life Sciences SAMPLE Four-Year Plan

#### Freshman Year Fall Semester

Treshman Tear Tun Semester		
Course Code	Description	Cr
*NRS 100	Natural Resource Conservation	3
NRS 101	Freshman Inquiry into NRS	1
URI 101	Planning for Academic Success	1
*BIO 101/103	Principles of Biology I/ Lab	4
*MTH103, *111, or *131	Applied Precalculus, Precalculus, or Applied Calculus (based on placement)	3
	*General Education Course	3-4
		15-16

#### Freshman Year Spring Semester

Course Code	Description	Cr
NRS 223	Conservation Biology	4
*BIO 102/104	Principles of Biology II/ Lab	4
*CHM 101/102	General Chemistry I/Lab	4
*MTH 131, or *General Ed.	Applied Calculus, or General Education Course	3-4
		15-16

Note: MTH131 Applied Calculus is required for ESM majors. A placement exam determines if a prerequisite is needed (i.e. MTH103 or 111). Students interested in taking MTH141 Calculus I (with advisor approval) should take MTH111 instead of 103 for the prerequisite.

Year 1 Milestones: Complete 30 credits with a cumulative gpa of 2.0 or higher. NRS100 & NRS223 (offered fall and spring). Transfer from UC to CELS. Consider a summer internship.

#### Sophomore Year Fall Semester

Course Code	Description	Cr
NRS 200	Seminar in Natural Resources	1
**CHM 112/114	General Chemistry II/ Lab	4
*GEO 103	Understanding the Earth	4
NRS 212	Introduction to Soil Science	4
	*General Education Course	3-4
		16-17

#### Sophomore Year Spring Semester

sopromore rem spring semester		
Course Code	Description	Cr
CHM124/126	Intro. to Organic Chemistry/Lab	4
STA 308	Introduction to Statistics	4
*EEC 105	Introduction to Resource Economics	3
	NRS Concentration	3-4
	*General Education Course	3-4
		15-17

<sup>\*\*</sup>CHM112/114 recommended. Students opting to take CMB211 or 311 instead (prereq is 2 sem. of CHM), must first complete CHM124/126.

Year 2 Milestones: Complete 60 credits with a cumulative gpa of 2.0 or higher. NRS 200 & NRS 212 (offered fall only). Meet with faculty advisor to plan junior year courses and discuss internship/research/study abroad opportunities.

#### Junior Year Fall Semester

Course Code	Description	Cr
	NRS Concentration	3-4
	NRS Concentration	3-4
	NRS Supporting Elective	3-4
	*General Education Course	3-4
	Free Elective	3-4
		15-17

#### Junior Year Spring Semester

Course Code	Description	Cr
	NRS Concentration	3-4
	NRS Concentration	3-4
	NRS Supporting Elective	3-4
	NRS Supporting Elective	3-4
	Free Elective	3-4
•		15-17

Year 3 Milestones: Complete 90 credits with a cumulative gpa of gpa 2.0 or higher. Meet with faculty advisor to plan senior year courses, discuss internship/research opportunities, and prepare Intent to Graduate Application for fall submission.

#### Senior Year Fall Semester

Course Code	Description	Cr
	NRS Concentration	3-4
	NRS Concentration	3-4
	NRS Supporting Elective	3-4
	NRS Supporting Elective	3-4
	Free Elective	3-4
		15-17

#### Senior Year Spring Semester

Course Code	Description	Cr
	NRS Concentration	3-4
	NRS Concentration	3-4
	NRS Supporting Elective	3-4
	NRS Supporting Elective	3-4
		15-17

#### **Total Credits to Graduate = 120**

Year 4 Milestones: Complete all remaining courses and requirements. Minimum of 120 earned credits with a cumulative gpa of 2.0 or higher; and minimum 2.0 gpa in major concentration courses.

NOTE: Visit http://web.uri.edu/nrs/undergraduate-programs/ for a list of NRS fall & spring courses and confirm with your advisor.

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