

SUSTAINABLE WATER MANAGEMENT DEGREE REQUIREMENT WORKSHEET – 2021-2022

Updated: July 7, 2021

Program Leader: Erum Sattar *This is NOT an Official Transcript or Record*

Student Name:	Academic Advisor:					
Prior to the star Advisor.	t of classes each semester, obtain approval of your course selection fol	lowing n	neeting with yo	our Academic		
Required Fall 2022	L Course Enrollment Approval:	Date:				
Required Spring 2	022 Course Enrollment Approval:	Date:				
	e Semester Hour Units (SHUs) Requirement: A minimum of 30 OTE: Any courses listed below without the "NSWM" subject code will require or	nline cross	s-registration via	SIS during registr	ation.	
Training in Protect Coursework Requi	to First Semester: ion of Human Subjects (CITI) Degree Requirement (complete prior to first semestrements Report PDF (Social and Behavioral Research modules) with score and exercise and fulfillment of this requirement needs to be recorded in SIS by Friedman's	xpiration	date listed need	s to be filed in you		
(SWM Academic Trustees of Tuft: SWM students mu their spring semes approvals are obt in March 2022 to Based on my revie	ester - Approval of Intent to Graduate: In order for a Friedman degree and Advisor and SWM Program Director) is a requirement for Friedman's I is University to approve the official degree conferral. It is to complete this Degree Requirement Worksheet (associated with their admitted for their intent to graduate in their summer semester upon completion of the complete in the comple	Dean to cance sem heir Sum n of the ap	approve and for nester) and obtain mer Practicum re approved worksho	or the Board of in required appro equirement. Once eet prior to Spring	vals in e g Break	
graduation: <u>Academic Advisor</u>	Approval:	Date:				
Program Director	Approval:	Date:				
Course #	Course Title	SHUs	Offered	Semester/Year Enrolled Mark "E" for Exemption	Grade	
	RED FOR ALL SWM STUDENTS (15 SHUS):				ı	
CEE 0293.04	Special Topics: Environmental Statistics	3	Fall			
CEE 0293.03	Special Topics: Sustainable Water Management (first of two semester-sequenced seminar course)	1	Fall			
		2	Fall Spring			
CEE 0293.03	seminar course) Special Topics: Sustainable Water Management II (second of two semester-sequenced					
CEE 0293.03 NSWM 0XXX	seminar course) Special Topics: Sustainable Water Management II (second of two semester-sequenced seminar course)	2	Spring			
NSWM 0XXX NSWM 0200 NSWM 0203 NSWM 0205	seminar course) Special Topics: Sustainable Water Management II (second of two semester-sequenced seminar course) Water Science and Systems Analysis Water Leadership Impact Management Water: Economics, Law, Negotiation and Policy	2	Spring Fall			
NSWM 0XXX NSWM 0200 NSWM 0203 NSWM 0205 SUMMER PRACTICUM	seminar course) Special Topics: Sustainable Water Management II (second of two semester-sequenced seminar course) Water Science and Systems Analysis Water Leadership Impact Management Water: Economics, Law, Negotiation and Policy 7 - REQUIRED-FOR ALL SWM STUDENTS (3 SHUS):	2 3 3 3	Spring Fall Spring Spring			
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Name:

Course #	Course Title	SHUs	Offered	Semester/Yea r Enrolled Mark "E" for Exemption	Grade
	urses (6 SHUs) (continued):				
NUTR 0204	Principles of Epidemiology	3	Fall		
NUTR 0217	Monitoring and Evaluation of Nutrition and Food Security Projects	3	Spring		
NUTR 0222/DHP D232	Gender, Culture, and Conflict in Human Emergencies	3	Fall		
NUTR 0231	Fundamentals of GIS - contact Friedman Registrar to be enrolled via SIS due to time-conflict with NSWM 0200: Water Science and Systems Analysis in the fall.	3	Fall/Spring		
NUTR 0324/DHP D213	International Humanitarian Response - Enrollment limited to 15 students.		To be confirmed for spring		
NUTR 0327	Sustainable Diets and Food Consumption	3	Fall		
CEE 0251/CH 0191	Biology of Water and Health	3	Fall		
ES 0100	Actionable Engineering Diplomacy	3	Fall		
UEP 0232/DLS 0275	Intro to GIS	3	Fall/Spring		
TRACK OPTION 2: W	ATER INFRASTRUCTURE FOR HUMAN SETTLEMENTS (12 SHUs):				
Required Course (3 SH	<u>, '</u>				
CEE 0214	Environmental and Water Resource Systems	3	Spring		
Select THREE Elective	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs):				
LIST # 1: Water Science					
NUTR 0231	Fundamentals of GIS - contact Friedman Registrar to be enrolled via SIS due to time-conflict with NSWM 0200: Water Science and Systems Analysis in the fall.	3	Fall/Spring		
CEE 0112	River Hydraulics and Stream Restoration	3	Spring		
CEE 0152	Environmental Health Data-Lab	3	Fall		
ILO L223	International Environmental Law	3	Fall		
UEP 0232/DLS 0275	Intro to GIS	3	Fall/Spring		
CEE 0251/CH 0191	Biology of Water and Health	3	Fall		
LIST # 2: Water and Inf	rastructure Policy and Planning				
NUTR 0231	Fundamentals of GIS - contact Friedman Registrar to be enrolled via SIS due to time-	1 2	Fall/Caring	l	
	conflict with NSWM 0200: Water Science and Systems Analysis in the fall.	3	Fall/Spring		
CEE 0111/ENV 0112	Hydrology of the Built Environment	3	Fall		
ES 0100	Actionable Engineering Diplomacy	3	Fall		
UEP 0206	Planning for Low-Impact Development	3	Spring		
UEP 0221	Climate Change Policy, Planning and Action	3	Spring		
UEP 0232/DLS 0275	Intro to GIS		Fall/Spring		
UEP 0264	Green Urban Design	3	Fall		
UEP 0279	Water Resources Policy and Planning and Watershed Management	3	Fall		
	/ATER DIPLOMACY (12 SHUs):				
	· · · · · · · · · · · · · · · · · · ·				
TRACK OPTION 3 - V Required Course:	·				
	Actionable Engineering Diplomacy	3	Fall		
Required Course: ES 0100 Select THREE Elective of	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs):	3	Fall		
Required Course: ES 0100 Select THREE Elective of LIST # 1 – Economics P	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs): olicy-Diplomacy	3	Fall		
Required Course: ES 0100 Select THREE Elective of	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs):	3	Fall Spring		
Required Course: ES 0100 Select THREE Elective of LIST # 1 – Economics P	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs): olicy-Diplomacy				
Required Course: ES 0100 Select THREE Elective of LIST # 1 – Economics P DHP D205	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs): olicy-Diplomacy Global Maritime Affairs	3	Spring		
Required Course: ES 0100 Select THREE Elective of LIST # 1 – Economics P DHP D205 DHP D223 DHP P252	ourses in total with <i>at least</i> ONE course from List # 1 and from List # 2 (9 SHUs): olicy-Diplomacy Global Maritime Affairs Theories of Conflict and Conflict Resolutions	3 3	Spring Fall		
Required Course: ES 0100 Select THREE Elective of LIST # 1 – Economics P DHP D205 DHP D223 DHP P252 DHP P253	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs): olicy-Diplomacy Global Maritime Affairs Theories of Conflict and Conflict Resolutions Global Water Security Perspectives	3 3 3	Spring Fall Spring		
Required Course: ES 0100 Select THREE Elective of LIST # 1 – Economics P DHP D205 DHP D223	ourses in total with at least ONE course from List # 1 and from List # 2 (9 SHUs): olicy-Diplomacy Global Maritime Affairs Theories of Conflict and Conflict Resolutions Global Water Security Perspectives Sustainable Development Diplomacy	3 3 3 3	Spring Fall Spring Spring		

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Name:

conflict with NUTR 0394 CEE 0214 Environment DHP P250 Environment UEP 0230 Negotiation, UEP 0279 Water Resou TRACK OPTION 4: WATER, FOOD, Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 NUTR 0327 Sustainable E NUTR 0327 Sustainable E Study Course P Registrar for th Registrar for th CEE 0112 CEE 0120 Clean Energy CEE 0152	Course Title	SHUs	Offered	Semester/Year Enrolled Mark "E" for Exemption	Grade
conflict with NUTR 0394 CEE 0214 Environment DHP P250 Environment UEP 0230 Negotiation, UEP 0279 Water Resou TRACK OPTION 4: WATER, FOOD, Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 NUTR 0327 Sustainable E NUTR 0327 Sustainable E Study Course P Registrar for th Registrar for th CEE 0112 CEE 0120 Clean Energy CEE 0152					
CEE 0214 Environment DHP P250 Environment UEP 0230 Negotiation, UEP 0279 Water Resou TRACK OPTION 4: WATER, FOOD, J Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable E NUTR 0327 Directed Study NUTR 0327 Directed Study NUTR 0497 Directed Study Study Course P Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152	als of GIS - contact Friedman Registrar to be enrolled via SIS due to time- h NSWM 0200: Water Science and Systems Analysis in the fall.	3	Fall/Spring		
DHP P250 Environment UEP 0230 Negotiation, UEP 0279 Water Resoul TRACK OPTION 4: WATER, FOOD, A Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable E NUTR 0327 Directed Study NUTR 0497 Directed Study Study Course P Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	Data Analysis	3	Fall		
UEP 0230 Negotiation, UEP 0279 Water Resoult TRACK OPTION 4: WATER, FOOD, A Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable E NUTR 0327 Sustainable E NUTR 0497 Directed Study Study Course F Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	ntal and Water Resource Systems	3	Spring		
TRACK OPTION 4: WATER, FOOD, A Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0231 Agricultural S NUTR 0232 Sustainable D NUTR 0327 Sustainable D NUTR 0327 Directed Study Study Course Registrar for the NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152	ntal Problem Solving	3	Fall		
TRACK OPTION 4: WATER, FOOD, A Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable D NUTR 0327 Sustainable D NUTR 0327 Directed Study Course R Registrar for th ROUTR 0497 Climate Char NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	n, Mediation, and Conflict Resolution	3	Fall		
NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta Conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable I NUTR 0327 Sustainable I NUTR 0497 Directed Study Study Course P Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	urces Policy and Planning and Watershed Management	3	Fall		
Select FOUR Elective Courses (12 S NUTR 0203 Fundamenta NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable E NUTR 0327 Political Agro NUTR 0497 Directed Study Study Course P Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	, AND ENERGY (12 SHUS):				
NUTR 0215/UEP 0223 Fundamenta NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable I NUTR 0XXX Political Agro NUTR 0497 Directed Study Study Course R Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment					
NUTR 0227 International NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable I NUTR 0327 Political Agro NUTR 0497 Directed Study Study Course Registrar for th RUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	als of Nutrition Policy and Programming: How Science & Practice Interact	3	Fall		
NUTR 0231 Fundamenta conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable E NUTR 0327 Political Agro NUTR 0497 Directed Study Course P Registrar for th CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	als of U.S. Agriculture	3	Fall		
conflict with NUTR 0233 Agricultural S NUTR 0327 Sustainable E NUTR 0XXX Political Agro NUTR 0497 Directed Study Course F Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	al Nutrition Programs	3	Fall		
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NUTR 0XXX Political Agro NUTR 0497 Directed Study Study Course P Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	Science and Policy I (prerequisite: NUTR 0215)	3	Spring		
NUTR 0497 Directed Study Study Course P Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	Diets and Food Consumption	3	Fall		
Study Course P Registrar for th NUTR 0256 Climate Char CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	roecology	3	Fall		
CEE 0112 River Hydrau CEE 0120 Clean Energy CEE 0152 Environment	udy: Sustainability on the Farm - Do not use SIS to enroll; complete a Directed Proposal form with Dr. Erum Sattar as the faculty sponsor - contact Friedman's the form and to be enrolled.	3	Fall		
CEE 0120 Clean Energy CEE 0152 Environment	ange: Risk and Adaptation for Food Systems and Beyond	3	Fall		
CEE 0152 Environment	ulics and Stream Restoration	3	Spring		
	gy Engineering – Offshore Wind	3	Fall		
CEE 0251/CH 0191 Biology of W	ntal Health Data-Lab	3	Fall		
	Vater and Health	3	Fall		
ES 0100 Actionable E	Engineering Diplomacy	3	Fall		
UEP 0232/DLS 0275 Intro to GIS		3	Fall		
UEP 0279 Water Resou	ources Policy and Planning and Watershed Management	3	Fall		
UEP 0293 Special Topic	ics: Energy Policy	3	Fall		