Indigenous Food, Energy and Water Systems PhD Minor

Course Requirements for GIDP PhD Students

The minor is comprised of five (5) courses: one "Indigenous research and outreach ethics" Seminar, one "Systems" course, one "Fundamentals" course, one "Society" course, and the "Unit Operations" course.

Seminar	Course Name	Semester	Units	Prerequisites	Instructor
Course ENVS (0(N	Indiana East Essays 1	E-11	1	Nama	Kaulatte Ohief
ENVS 696N	Indigenous Food, Energy, and	Fall	1	None	Karletta Chief
	Water Security and Sovereignty Seminar		unit		
Systems	Course Name	Semester	Units	Prerequisites	Instructor
Courses	Course Maine	Semester	Units	1 rerequisites	Institucioi
BE 579	Applied instrumentation for controlled environment agriculture	Spring	3 units	MATH 113 Calculus PHYS 102 Intro to Physics 1	Murat Kacira
BE 582	Integrated engineering solutions in the food-energy- water nexus	Fall	3 units	none	Joel L. Cuello
ENVS 596B	Water policy in Arizona and semi-arid regions	Spring	3 units	none	Sharon Megdal
GEOG 596J	Water, Energy, Food Nexus (note: Course Catalog Title is "Water Management and Policy")	TBD	3 units	none	TBD
Fundamentals Courses	Course Name	Semester	Units	Prerequisites	Instructor
ECE/OPTI 514A	Photovoltaic solar energy systems	Spring	3 units	Graduate standing	Raymond K. Kostuk
ECE/MSE/OP	Advanced topics in optical and	Spring, even	3		Kelly
TI 534	electronic materials	years only	units		Simmons- Potter
MSE 530	Organic electronic materials and devices	Fall, even years only	3 units		Erin Ratcliff
MSE 550	Materials selection for the environment	Spring	3 units	MSE110 Solid State Chemistry MSE222 Intro to MSE MSE331R Fund of Materials for Engrs	Barett G. Potter

Society	Course Name	Semester	TT • .	Prerequisites	Instructor
Courses			Units		
AIS 526A	Principles of Indigenous	TBD	3	none	Ronald
	economics		units		Trosper
AIS 531A	Traditional ecological	Fall	3	none	Ronald
	knowledge		units		Trosper
AIS 541A	Natural resource management	Spring	3	none	Benedict
	in native communities		units		Colombi
Unit	Course Name	Semester		Prerequisites	Instructor
Operations			Units		
Course					
CHEE 514	Sustainable Water Supplies for	Spring, non-	4	none	Vasiliki
	Remote Communities	consecutive	units		"Vicky"
		years			Karanikola

Graduate College Catalog <u>https://grad.arizona.edu/catalog/programinfo/IFEWSMING</u> Graduate Interdisciplinary Programs <u>https://gidp.arizona.edu/indige-fews</u>