

## Professional Science Master's in Water Resource Management

Fall Semester Year I			Spring Semester Year I		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
WTRM-500 12201 (W)	Water Quality Assessment, Monitoring & Treatment	3	WTRM 505 26230 (R)	GIS for Water Resource Management	3
WTRM 501 12202 (R)	Surface & Ground Water Hydrology	3	WTRM 601 20958(W)	Water Quality Modeling	3
ULAE 620 16658 (T)	R Studio	3	WTRM 506 25101(TF)	Quantitative and Qualitative Research Methods (Statistics + R studio)	3
ENGL 515 15611	Writing Proficiency Course—graduation requirement (GRE Score Dependent)	3	WTRM 504 25100 M(7:30-8:20PM)	Ethics, Responsible Conduct of Research & Prof Responsibility	1
<b>Subtotal</b>		<b>12</b>	<b>Subtotal</b>		<b>10</b>
Year II			Year II		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
WTRM 600 16288(W&R)	Stream Restoration	3	WTRM 699 20859 W(8:30-9:30pm)	Capstone Seminar	1
ENSC 595 - 32 16835 (T)	Entrepreneurship and Business Incubator	3	WTRM 502 (F)	Public Communication for STEM Professionals	3
WTRM 690 16830 (M)	Internship	3	WTRM 595 -01	The Systems Approach and Project Management	3
<b>Subtotal</b>		<b>9</b>	<b>Subtotal</b>		<b>7</b>

### Electives

#### Fall Semester - Recommended Courses (Required 3 credit hrs)      Spring Semester - Recommended Courses (Required 3 credit hrs)

Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
ARCP 505	Sustainable Design I	3	ENSC 508	Ecological Economics	3
ENSC 595-02 15117	Independent Study/ GIS	1			

## Professional Science Master's in Urban Agriculture

Fall Semester Year I			Spring Semester Year I		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
WTRM 500 12201 (W)	Water Quality Assessment, Monitoring & Treatment	3	ENSC 595 -02 26386®	Special Topic (Independent study)	2
ENSC 512 14913 (R)	Food Production and Agro-Ecology	3	ENSC 511 25820	Advanced Sustainable Urban Agriculture	3
ULAE 620 16658 (T)	R Studio	3	WTRM 506	Quantitative and Qualitative Research Methods (Statistics + R)	3
			WTRM 504	Ethics, Responsible Conduct of Research & Prof Responsibility	1
Subtotal		9	Subtotal		9
Fall Semester Year II			Spring Semester Year II		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
ENSC 509 15359 (M)	Advance Climate Science	3	WTRM 699	Capstone Seminar	1
ENSC 595 -32 16835 (T)	Entrepreneurship and Business Incubator	3	WTRM 690	Internship	3
ENGL 515 15611 (online)	Writing Proficiency Course (Depends on GRE Score)	3	ENSC 595 -30 25105(M)	The Systems Approach and Project Management	3
ENSC 510 16596 (W)	Urban Land Use Planning	2	WTRM 502	Public Communication for STEM Professionals	3
Subtotal		11	Subtotal		10

### Electives

#### Fall Semester - Recommended Courses (Required 3 credits)

Course Number	Course Requirements	Credit Hours
ARCP 505	Sustainable Design I	3
WTRM 501	Surface & Ground Water Hydrology	3

#### Spring Semester - Recommended Courses (Required 3 credits)

Course Number	Course Requirements	Credit Hours
WTRM 505	GIS for Water Resource Management	3
ENSC 508	Ecological Economics	3

## Professional Science Master's in Urban Sustainability

Fall Semester Year I			Spring Semester Year I		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
ULAE 620 16658 (T)	R studio	3	ENSC 508 26399 (T:4-6:50PM))	Ecological Economics	3
ARCP 505 14696	Sustainable Design I	3	WTRM 506	Quantitative and Qualitative Research Methods (Statistics + R)	3
<b>Elective</b>	<b>Elective</b>	<b>3</b>	ENSC 595- 02	Special Topic (Independent study)	2
ENGL 515 15611	Writing Proficiency Course (Depends on GRE Score)	3	WTRM 504	Ethics, Responsible Conduct of Research & Prof Responsibility	1
Subtotal (Required)		12	Subtotal		9
Fall Semester Year II			Spring Semester Year II		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
ENSC 509 15359 (M)	Advanced Climate Sciences	3	WTRM 699	Capstone Seminar	1
ENSC 595 -32 16835 (T)	Entrepreneurship and Business Incubator	3	WTRM 690	Internship	3
ENSC 510 16596 (W)	Urban Land Use Planning	2	ENSC 595 -30	The Systems Approach and Project Management	3
			WTRM 502	Public Communication for STEM Professionals	3
Subtotal		8	Subtotal		10

### Electives

**Recommended Courses for Electives (Required 3 credits)**

Course Number	Course Requirements	Credit Hours
WTRM-500 12201	Water Quality Assessment, Monitoring & Treatment	3
ENSC 512 14913	Food Production and Agro-Ecology	3

**Recommended Courses for Electives (required at least 3 credits)**

Course Number	Course Requirements	Credit Hours
ENSC 511	Advanced Sustainable Urban Agriculture	3
WTRM 505	GIS for Water Resource Management	3

### Graduate Certificate in Water Resource Management: Required Courses

Fall Semester Year I			Spring Semester Year I		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
WTRM-500	Water Quality Assessment, Monitoring & Treatment	3	WTRM 505	GIS for Water Resource Management	3
WTRM 501	Surface & Ground Water Hydrology	3	WTRM 601	Water Quality Modeling	3
Subtotal		6	Subtotal		6

### Graduate Certificate in Urban Agriculture: Required Courses

Fall Semester Year I			Spring Semester Year I		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
ENSC 509	Advance Climate Science	3	ENSC 511	Advanced Sustainable Urban Agriculture	3
ENSC 512	Food Production and Agro-Ecology	3			
ENSC 510	Urban Land Use Planning	3			
Subtotal		9	Subtotal		3

### Graduate Certificate in Urban Sustainability: Required Courses

Fall Semester Year I			Spring Semester Year I		
Course Number	Course Requirements	Credit Hours	Course Number	Course Requirements	Credit Hours
ARCP 505	Sustainable Design I	3	ENSC 511	Advanced Sustainable Urban Agriculture	3
BGMT 510	Sustainability Entrepreneurship	3			
ENSC 510	Urban Land Use Planning	3			
Subtotal		9	Subtotal		3