

## Graduate Certificate in Fisheries Management Program of Study 2016-17

<b>First and Last Name:</b>		<b>ID #:</b>	
<b>Day Phone:</b>		<b>Email:</b>	
<b>Capstone Mentor (if known):</b>		<b>Concurrent OSU Degree Program:</b>	

**A total of 18 credits hours are required for the Certificate, 9 of these must meet stand alone requirements.**

Slash courses (4XX/5XX) are courses that meet at their scheduled time or are linked in Blackboard with an undergraduate course. Slash courses do not meet graduate stand alone requirements. An \* next to a slash course listing designates the slash only applies to the Corvallis Campus section; Ecampus sections are considered stand alone.

Term Intended to Take	Term Taken & Grade	Course	Slash	Credits	Term and Campus				
					F	W	Sp	Su	
<b>Capstone Project: Required</b>					<b>min. 3</b>				
		FW 506	Projects		3	C,E	C,E	C,E	C,E
<b>Human Dimensions Core: Choose at least two</b>					<b>5 - 6</b>				
		AEC 534	Environmental and Resource Economics		3			E	
		AEC/MRM 552	Marine Economics		3			C	
		ANTH 581	Natural Resources and Community Values		4				
		COMM 540	Theories of Conflict and Conflict Management	COMM 440	3	C			
		COMM 542	Bargaining and Negotiation Processes	COMM 442	3	Term Offerings: TBD			
		COMM 544	Third Parties in Dispute Resolution: Mediation/Arbitration		3				
		COMM 546	Communication in International Conflict and Disputes		3			C	
		FW 515	Fisheries and Wildlife Law and Policy		3		E	E	
		FW 522	Introduction to Ocean Law	FW 422	3	E			
		FW 537	Structured Decision Making in Natural Resource Mgmt.		2				
		FW 549	History of Fisheries Science		3		E		
		FES 585	Consensus and Natural Resources	FES 485	3	E	C,E	E	
		FW 620	Ecological Policy		3	E		E	
		MRM 521	Ocean Law		3	Term Offerings: TBD			
		MRM 530	Principles and Practice of Marine Resource Mgmt.		3	Term Offerings: TBD			
		MRM 535	Rights-based Fisheries Management		3				
		PS 575	Environmental Politics and Policy	PS 475	4	C,E		E	E
		PS 576	Science and Politics	PS 476	4			C	
		PS 577	International Environmental Politics and Policy	PS 477	4	E	C		
		SOC 580	Environmental Sociology	SOC 480	4	C	E		
		SOC 581	Society and Natural Resources	SOC 481	4			C	
<b>Fisheries Sciences and Ecology Subject Area: choose at least two</b>					<b>5-6</b>				
		FE 530	Watershed Processes	FE 430	4				
		FW 519	The Natural History of Whales and Whaling	FW 419	3	H	E		
		FW 520	Ecology and Management of Marine Fishes		3	Term Offerings: TBD			
		FW 521	Aquatic Biological Invasions	FW 421	4		E		H
		FW 524	Introduction to Fisheries Assessment		3			E	
		FW 531	Dynamics of Marine Biological Resources	FW 431	4	Term Offerings: TBD			
		FW/OC 534	Estuarine Ecology	FW/OC 434	4	C,H	E		
		FW 538	Structured Decision Making in Natural Resource Mgmt. Lab		2				
		FW/FES 545	Ecological Restoration	FW/FES 445	4	E		C,E	E
		FW 554	Fishery Biology	FW 454	4	C	E		
		FW 556	Limnology	FW 456	5			C,E	
		FW 562	Ecosystem Services	FW 462	3			E	
		FW/BI 564	Marine Conservation Biology	FW 464	3	Term Offerings: TBD			
		FW 565	Marine Fisheries	FW 465	4	C,H			
		FW 571	Environmental Physiology of Fishes	FW 471	4		C		
		FW 573	Fish Ecology and Conservation		4		C	E	
		FW/OC 574	Early Life History of Fishes (F '18, '20)	FW 474	4	C'18,H'18			
		FW 576	Fish Physiology	FW 476	4			E	
		FW 579	Wetlands and Riparian Ecology (Corvallis - Sp '18, '20)	FW 479*	3	E		*C'18,E	
		FW 580	Stream Ecology		3		C,E		
		FW 597	Aquaculture	FW 497	3			E	
		FW 599	Special Topics		2 to 4	see schedule of classes			
		OEAS 540	The Biogeochemical Earth		4		C		
		TOX 555	Ecotoxicology: Aquatic Ecosystems	TOX 455	3		C		
<b>Skills Courses: One Course Recommended (not required)</b>									
		CH 590	Computer Programming for Scientist		3		C,E		
		FW 514	Professional Development: Meeting Communications		1	E	C,E	E	E
		FW 538	Structured Decision Making in Natural Resource Mgmt. Lab		2				
		GEOG 580	Remote Sensing I: Principles and Applications (previously GEO 544)	480	4	C	E	E	
		GEOG 560	GIScience I: Intro to Geographic Information Science (previously GEO 565)		4	C,E	E		
<b>Total Credits: Choose your final course(s) from any of the above sections.</b>					<b>18</b>				

Classes are subject to change at anytime: check the online schedule of classes for updates.

**Additional background courses**

These courses are approved for financial aid for Graduate Certificate in Fisheries Management students but will not count toward a certificate degree. These courses are intended to help students prepare for grad level courses.				F	W	Sp	Su
BI 370	Ecology		3	C,E	C,E	C,E	E
FW 315	Ichthyology		3	C,E	E	E	E
FW 320	Introductory Population Dynamics		4	E	C,E	E	E
MTH 245	Mathematics for Management, Life and Social Sciences		4	C,E	C,E	C,E	C,E

**If you plan to take a Leave of Absence or change your program of study, please contact the Graduate Certificate Program Coordinator and resubmit this form.**

Please review each of the following program requirements:

- At least 2 courses and a minimum of six credits will be taken from the Human Dimensions subject area.
- At least 2 courses and a minimum of six credits will be taken from the Fisheries Science and Ecology subject area.
- A minimum of 18 credits (15 course credits plus 3 capstone credits) are required to complete the program.
- The student's capstone project will be evaluated by both the project mentor and the capstone course supervisor. The capstone project must receive a grade of Pass (P) from the course supervisor for completion.
- If the student's capstone project is not completed within the first term of enrollment in FW 506, the student may take a grade of Incomplete. To receive a final grade, the student must submit the completed capstone project within one year of receiving an Incomplete.
- Students must enroll for a minimum of three credits each term (except Summer term). Students may request a Leave of Absence for terms in which they do not intend to enroll. Please contact the Certificate Program Coordinator if you intend to take a Leave of Absence.
- All work toward this certificate must be completed within seven (7) years. This includes transfer credits, all course work, all examinations, and capstone project.
- A maximum of 6 credits graduate credits may be transferred toward a certificate. All transfer courses listed on the previous pages must be approved by the Program Director and meet one of the following definitions:
  - o Graduate courses taken at OSU while enrolled as a non-degree student, or
  - o Graduate courses taken at OSU while enrolled as a post baccalaureate student, or
  - o Graduate courses taken at OSU and reserved for graduate credit while enrolled as an undergraduate student, or
  - o Graduate courses taken at OSU and reserved for graduate credit while enrolled as a post baccalaureate student, or
  - o Graduate courses taken at other accredited universities after receiving a baccalaureate degree.
- None of the courses listed on this program will be completed with grades of S. I understand that such courses cannot be used in a graduate program.
- None of the courses listed on this program will be completed with letter grades below C (2.00).
- Transfer courses must be earned with grades of B or better and cannot have been used to fulfill requirements for another master's degree. Courses that are graded on a nonstandard basis, such as pass/no pass (P/N), credit/not credit, and satisfactory/unsatisfactory (S/U) cannot be used for transfer credit.