



CURRICULUM Bachelor of Science in Fisheries First Year

1st Semester		2 nd Semester			
Course	Course Title	Units	Course	Course Title	Units
Number			Number		
GE Core 1		3	GE Core 3		3
GE Core 2		3	GE Elect 1		3
Fish 100	Introduction to Fisheries Science	3	Chem 23	Inorganic Analytical Chemistry	3
Physics 21	Introductory Physics	4	Chem 23.1	Inorganic Analytical Chemistry, Lab	2
Bio 14	Integrative Biology	5	Fish 101	Aquatic Fauna and Flora	4
PE 1	Foundations of Physical Fitness	(2)	Fish 102	Ichthyology	4
NSTP 1	National Service Training Program	(3)	PE 2	Swimming	(2)
			NSTP		(3)
	Sub-Total	18		Sub-Total	19

Second Year

1st Semester			2 nd Semester		
Course	Course Title	Units	Course	Course Title	Units
Number			Number		
GE Core 4		3	GE Elect 3		3
GE Elect 2		3	Fish 125	Aquaculture Technologies	5
Fish 106	Aquatic Ecology	3	Fish 137	Fish Capture Technology	3
Fish 154	Fisheries Microbiology	3	Fish 156	Fisheries Post Harcest Technologies	5
Fish 181	Oceanography and Limnology	3	Fish 175	Coastal Resource Management	3
Math 50	Applied Calculus	4	PE 2		(2)
PE 2		(3)			
	Sub-Total	19		Sub-Total	19

Third Year

1st Semester			2 nd Semester		
Course	Course Title	Units	Course	Course Title	Units
Number			Number		
GE Core 5		3	GE Core 6		3
GE Elect 4		3	GE Elect 5		3
Fish 110	Fisheries Organic Chemistry	5	Stat 102	Statistical Methods in Research	3
Fish 119	Fisheries Engineering	3	Fish 117	Health Management in Aquaculture	3
Elective 1		3	Fish 120	Fisheries Biochemistry	3
Elective 2		3	Fish 196	Methods of Research	3
			Elective 3		3
	Sub-Total	20		Sub-Total	21

MIDYEAR

Fish 195	PRACTICUM	3	

Fourth Year

	1st Semester			2 nd Semester	
Course	Course Title	Units	Course	Course Title	Units
Number			Number		
GE Core 7		3	PI 100	The Life and Works of Jose Rizal	3
Fish 104	Intro to Fisheries Entrepreneurship	3	Fish 118	Fisheries Laws, Policies and Institutions	3
Fish 109	Physiology of Aquatic Organism	3	Fish 124	Fisheries Extension	3
Fish 147	Fish Genetics	3	Fish 150	Fisheries Management	5
Flective 4		3	Elective 5		2-4
Fish 200*	Undergraduate Thesis	2-4	Fish 200	Undergraduate Thesis	(2)
	Sub-Total	17-19		Sub-Total	16-20

TOTAL NO. OF UNITS

154-156

*Students can take Fish 200 once in the first semester (4 units) or twice (2 units each) This can also be taken as early as Midyear of the third year





Course Number	Course Title	Units	Course Number	Course Title	Units
	GE COURSES	36		ELECTIVES	14- 16*
	Required GE Courses (Core)	21	Fish 107	Aquatic Invertebrates	3
Kas 1	Kasaysayan ng Pilipineas	3	Fish 111	Phycology	3
Ethics 1	Ethics & Moral Reasoning in Everyday Life	3	Fish 115	Nutrition of Aquatic Animals	3
Arts 1	Critical Perspective in the Arts	3	Fish 116	Hatchery Management	3
STS 1	Science, Technology and Society	3	Fish 131	Aquatic Ecosystems Health & Mgt	3
Math 50	Mathematics, Cultire amd Society	3	Fish 134	GIS & Remote Sensing for Fisheries	3
Elect GE	Elective GE*	15	Fish 140	Fish Stock Assessment	3
	*may include Aquatic Science Courses	1	Fish 151	Fishery Product Dev't & Value Addition	3
	may menua require serioses compas		Fish 155	Chemical Evaluation of Water and Aquatic Products	3
	FOUNDATION COURSES	21	Fish 159	Fish Plant Management	3
Bio 14	Integrative Biology	5	Fish 160	Fish Handling & Preservation of Product	3
Chem 23	Inorganic Analystical Chemistry	3	Fish 167	Actual Fishing	3
Chem 23.1	Inorganic Analystical Chemistry, Lab	2	Fish 169	Fisheries Biotechnology	3
Math 50	Applied Calculus	4	Fish 171	Food Eng'g Applications in Fisheries	3
Physics 21	Introductory Physics	4	Fish 176	Community-Based Coastal Resource Mgt	3
Stat 102	Statistical Methods in Research	3	Fish 177	Ocean Res Utilization & Conservation	3
			Fish 182	Field Oceanography	2
	CORE COURSES	80	Fish 185	Navigation and Seamanship	3
Fish 100	Introduction	3	Fish 197	Special Topics in Fisheries**	3
Fish 101	Aquatic Fauna and Flora	4	Fish 191	Philippine Fishing Grounds	2
Fish 102	Ichthyology	4	Bio 150	Intro to Molecular & Cell Biology	3
Fish 104	Intro to Fisheries entrepreneurship	3	Bio 151	Environment Management	3
Fish 106	Aquatic Ecology	3	Bio 152	Principles of Molecular Bio & Biotech	3
Fish 109	Physiology of Aquatic Organisms	3	Bio 189	Technical Writing for Life Sciences	3
Fish 110	Fisheries Organic Chemistry	5	MCB 120	Microbial Physiology	3
Fish 117	Health Management in Aquaculture	3	MCB 150	Microbial Ecology	3
Fish 118	Fisheries Laws, Policies and Institutions	3	Comm 12	Technical Communications	3
Fish 119	Fisheries Engineering	3	Chem 184	Chemistry of Food and Food Products	3
Fish 120	Fisheries Biochemistry	3	CMSC 11	Introduction to Computer Science	3
Fish 124	Fisheries Extension	3	Math 153	Computer Programming 1	3
Fish 125	Aquaculture Technologies	5	Econ 11	Introductory Economics	3
Fish 137	Fish Capture Technology	3	Econ 102	Microeconomics	3
Fish 147	Fish Genetics	3	Econ 174	Fisheries Economics	3
Fish 150	Fisheries Management	5	Acctg 1	Fundamentals of Management Acctg	3
Fish 154	Fisheries Microbiology	3	BA 101	Introduction to Business Management	3
Fish 156	Fisheries Post Harvest Technologies	5	CM 102	Introduction to Cooperatives	3
Fish 175	Coastal Resource Management	3	Mgt 170	Introduction of Marketing Management	3
Fish 181	Oceanography and Limnology	3			
Fish 195	Practicum	3		*a) To include all other 100 –level courses approved by the CFOS faculty	
Fish 196	Methods of Research	3		b) A BS Fish student should enroll in at least two (2) Fisheries Electives	
Fish 200	Undergraduate Thesis	4			
				**Student enrolls Fish 195 in UPV and may attend classes in foreign universities where UPV or UP System has an existing MOA/MOU and earns credit	





Course Number	Course Title	Course Description and Prerequisite(s)
Aqua Sci 1	Fish Makes Sense	The Dynamic Interaction between Man and the Aquatic Environment:
		Major Fisheries Concepts, Issues and Developments
A C-: 16	Eigh David Control	Prereq: None Credit: 3 units (3 hrs/wk)
Aqua Sci 16	Fish Beyond Capture	Processing/Preservation of Fish, Beliefs and recent Developments in Nutrition, Hazards and Utilization of Fish as Food.
		Prereq: None Creit: 3 units (3 hrs/wk)
Fish 100	Introduction to Fisheries Science	Foundations of Marine Fisheries, Aquaculture, Fish Procwessing
		Technology and Fisheries
		Prereq: None Credit: 3 units (3 hr lec)
Fish 101	Aquatic Fauna and Flora	Biology of Aquatic Organisms, their Distribution and Evolution
E: 1 100	7.1.1	Prereq: Bio 40 Credit: 4 units (2 hr lect/6 hr lab)
Fish 102	Ichthyology	Morphology, Anatomy, Systematics and Distribution of Fishes, their
		Interrelationships with other Aquatic Biota Prereq: Bio 14 Credit: 4 units (2 hr lec/6 hr lab)
Fish 104	Intro Fisheries Entrepreneurship	The Study of the Theory and Practice of Entrepreneurship, including the
11511 104	mitto Pisheries Entrepreneursinp	Strategies and Application of the various Management Tasks and
		Concerns in Planning and Managing a Fisheries Business
		Prereq: None Credit: 3 units (3 hr lec)
Fish 106	Aquatic Ecology	Fundamentals of Ecology and the Study of different Aquatic Ecosystems
		Prereq: Chem 23 Credit: 3 units (2 hr lect/3 hr lab)
Fish 107	Aquatic Invertebrates	Morphology, Anatomy and Systematics of Aquatic Invertebrates; their
		Biology and Interrelationships with other Aquatic Biota
E: 1 100		Prereq: Fish 101 Credit: 3 units (2 hr lec/3 hr lab)
Fish 109	Physiology of Aquatic Organisms	Physiology and Life History of Fishes and Aquatic Invertebrates
Fish 110	Fisheries Organic Chemistry	Prereq: Fish 102 Credit: 3 units (2 hr lee; 3 hr lab) Principles of Organic Chemistry and their Application to Fisheries
1 1811 1 1 0	risheries Organie Chemistry	Prereq: Chem 23 Credit: 5 units (3 hr lec/6 hr lab)
Fish 111	Phycology	Morphology, Physiology, Systematics and Distribution of Aquatic
	, J	Plants, their role and Interrelationship with other Aquatic Organisms
		Prereq: None Credit: 3 units (2 hr lect/3 hr lab)
Fish 115	Nutrition of Aquatic Animals	Principles of Nutrition; Nutrient Requirements; Ration Formulation and
		Practical Feeding of selected Finfishes and Shellfish
E' 1 116	TI d I	Prereq: Fish 120 & Fish 109 Credit: 3 units (2 hr lec/3 hr lab)
Fish 116	Hatchery Management	Application of the Principles of Reproductive and Larvae Physiology of Aquatic Organisms in the Design, Construction and Management of
		Hatchery Facilities
		Prereq: Fish 109 & Fish 125 Credit: 3 units (1 hr lec/6 hr lab)
Fish 117	Health Management in Aquaculture	Biology of Pathogens and Study of other Disease Causative Agents of
		Aquaculture Organisms and their Prevention and Control
		Prereq: Fish 102 Credit: 3 units (2 hr lec/3 hr lab)
Fish 118	Fisheries Laws, Policies and	Laws, Policies and Institutions, including National and International laws
	Institutions	and treaties affecting exploitation, protection and conservation of fishery
		and maritime resources
Fish 119	Eighoning Engineering	Prereq: None Credit: 3 units (3 hr lect) Applications of Engineering Principles to Fisheries
F18H 119	Fisheries Engineering	Prereq: Physics 21 & Fish 125 Credit: 3 units (2 hr lec/3 hr lab)
Fish 120	Fisheries Biochemistry	Chemistry of Carbohydrates, Lipids, Proteins and Enzymes with
11011 120	2 and the Brown and the state of the state o	emphasis on Fish and Fishery Products
		Prereq: Fish 110 Credit: 3 units (2 hr lec/3 hr lab)
Fish 124	Fisheries Extensison	Introduction to Extension, its Philosophy and Role in Fissheries including
		Approaches and Methods
		Prereq: Senior Standing Credit: 3 units (3 hr lec)
Fish 125	Aquaculture Technologies	Principles and Methods of Aquaculture and Application of other Sciences
		(Physical, Chemical, Biotechnological, Medical) to Cultivation of
		Aquatic Organsims; recent Development in Aquaculture





		Prereq: None Credit: 5 units (3 hr lec/6 hr lab)
Fish 131	Aquatic Ecosystems Health and Management	Assessment and Monitoring of Aquatic Ecosystems Health through the Use of Ecological Indicators and Ecological Risk Analysis to Properly Manage and Sustain Aquatic Ecosystems
		Prereq: Fish 110 Credit: 3 units (2 hr lec/3 hr lab)
Fish 134	GIS and Remote Sensing for Fisheries	Geographic Information Systems and Remote Sensing Applied to Fisheries and Ocean Sciences Prereq: None Credit: 3 units (3 hr lec)
Fish 137	Fish Capture Technology	Overview of Philippine Capture Fisheiies; Classification of Fishing Gears' Materials for Fishing Gear; Development of Fishing Gear
		Technology Prereq: Fish 101; Fish 102 & Math 50 Credit: 3 units (2 hr lec/3 hr lab/field exposure)
Fish 140	Fish Stock Assessment	Methods in Assessing the Size and Status of Fish Stocks Prereq: Math 50, Fish 102 & Fish 137 Credit: 3 units (3 hr lec)
Fish 147	Fish Genetics	Principles of Cellular and Molecular Genetics of Fish and other Aquatic Animals and Plants, to include Breeding and other Genetic Applications Prereq: Fish 102 & Fish 120 Credit: 3 units (2 hr lec/3 hr lab)
Fish 150	Fisheries Management	Key Concepts in Fisheries and Ocean Resource Management including Studies of Coastal Communities, Governance, Fish Stock Assessment Methods and its Application in Fisheries Management Prereq: Fish 106 Credit: 5 units (3 hr lec/6 hr lab)
Fish 151	Fishery Product /Development and Value Addition	Developing and Value Adding in Fish and Fishery Products, including Marketing, Packaging and Shelf-life Determination Prereq: Fish 156 Credit: 3 units (2 hr lec/3 hr lab)
Fish 154	Fisheries Microbiology	Bacteria, Yeast, Molds and Parasites Associated with Fish, their Characteristics and Importance to Fisheries Prereq: Fish 101 Credit: 3 units (2 hr lec/3 hr lab)
Fish 155	Chemical Evaluation of Water and Aquatic Products	Chemical Composition and Standard Methods of Analysis of the Aquatic Environment and Fishery Products Prereq: Fish 156, Chem 23 and Fish 110 Credit:3 units (2 hr lec/3 hr lab)
Fish 156	Fisheries Post Harvest Technologies	Handlingt, Cold Storage, Curing and Canning of Fish & Fishery Products Prereq: Fish 154 Credit: 5 units (3 hr lec/6 hr lab)
Fish 159	Fish Plant Management	Total Quality Management Application to Fish Processing Plants Prereq: Fish 156 Credit: 3 units (2 hr lect/3 hr lab)
Fish 160	Fish Handling & Preservation of Fish	Handling of Live Fish and Low Temperature Preservation of Fish and Fishery Products Prereq: Fsih 156 & Fish 154 Credit: 3 units (2 hr lec/3 hr lab)
Fish 167	Actual Fishing	Practical Application of the Principles and Methods of Fishing; Issues related to Fishing; Measures to mitigate the Impacts of Fishing Gears Prereq: Fish 137 Credit: 3 units (1 hr lec/6 hr lab)
Fish 169	Fisheries Biotechnology	Fundamentals of Biotechnology and its Application in the Field of Fisheries Prereq: Fish 147 Credit: 3 units (2 hr lec/3 hr lab)
Fish 171	Food Engineering Applications in Fisheries	Principles of Food Engineering Relevant to Fish Processing Operations and their Applications Prereq: Fish 156 Credit: 3 units (2 hr lec/3 hr lab)
Fish 175	Coastal Resource Management	Introduction to the Coastal Environment, its Resources and Uses; Resource Issues resulting primarily from human activities; the various role players in Resource Management; the Interdisciplinary and Multisectoral Resource Management Strategies at the Local, National and Global Scale Prereq: Fish 106 Credit: 3 units (3 hr lec)
Fish 176	Community-Based Coastal Resource Management	Introduction to Management of Coastal Resources by the Community Members and other Primary Stakeholders, with emphasis on Community Organization Process Prereq: Fish 106 Credit: 3 units (3 hr lec)





Fish 177	Ocean Resource Utilization and	Introduction to Ocean Resources, Concepts in its Utilization and
	Conservation	Conservation
		Prereq: Fish 106, Fish 137 Credit: 3 units (3 hr lec)
Fish 181	Oceanography and Limnology	The Study of the Geology, Chemistry and Physics of different Aquatic
		Environments and their Influence on Life and other Environmental
		Processes
		Prereq: Chem 23; Co-requisite: Math 50 Credit: 3 units (3 hr lec)
Fish 182	Field Oceanography	Oceanographic Research Methods, Instrumentation and Analysis
		Prereq: Fish 181 Credit: 2 units (6 hr lab)
Fish 185	Navigation and Seamanship	Basic Skills in Seamanship and Navigation; Safety at Sea for Fisheries
		Applications
		Prereq: Math 150, Fish 137 Credit: 3 units (2 hr lec/3 hr lab)
Fish 191	Philippine Fishing Ground	General Survey of Philippine Fishing Grounds, including the Status of
		Fisheries Resources and their Utilization
		Prereq: None Credit: 2 units (2 hr lec)
Fish 195	PRACTICUM	Credit: 3 units
Fish 196	Method of Research	Introduction to Concepts, Principles, and Types of Research, including
		discussion on designing research proposals, methodologies, research
		writing, and analysis of data
		Prereq: Junior Standing Credit: 3 units (3 hr lec)
Fish 197	Special Topics in Fisheries	Areas/Aspects of Fisheries of Special Interest to Undergraduate Students
		Prereq: Senior Standing Credit: (3 hr lec)
Fish 200	Undergraduate Thesis	Prereq: Senior Standing Credit: 4 units
Fish 200	Undergraduate Thesis 1	Prereq: Senior Standing Credit: 2 units
Fish 200	Undergraduate Thesis 2	Prereq: Senior Standing Credit: 2 units

^{*}students can take Fish 200 once in the First Semester (4 u) or twice (2 u each). This can also be taken as early as the midyear of the third year.

GE Core (21 units)
Comm 10 Critical Perspective in Communication
Arts Critical Perspective in Arts
Math 10 Man, Culture and Society
Hist 1 Philippine History
Wika 1 Wikka, Kultura at Lipunan
Ethics 1 Ethics and Moral Reasoning in Everyday Life
STS 1 Science, Technology and Society

GE Electives (15 units)
May include Aquatic Science courses

Philarts 1 SAS 1 Science 10 Science 11 Soc Sci 5 Aqua Sci 1





Name of Student:		SN:
	CHECKLIST	

Bachelor of Science in Fisheries First Year

	1st Semester			2 nd Semester		
Grade	Course Title	Units	Grade	Course Title	Units	
	GE Core 1	3		GE Core 3	3	
	GE Core 2	3		GE Elec 1	3	
	Fish 100	3		Chem 23	3	
	Physics 21	4		Chem 23.1	2	
	Bio 14	5		Fish 101	4	
	PE 1	(2)		Fish 102	4	
	NSTP	(3)		PE 2	(2)	
				NSTP	(3)	
	Sub-Total	18		Sub-Total	19	

Second Year

	1st Semester			2 nd Semester		
Grade	Course Title	Units	Grade	Course Title	Units	
	GE Core 4	3		GE Elec 3	3	
	GE Elec 2	3		Fish 125	5	
	Fish 106	3		Fish 137	3	
	Fish 154	3		Fish 156	5	
	Fish 181	3		Fish 175	3	
	Math 50	4		PE 2	(2)	
	PE 2	(3)				
	Sub-Total	19		Sub-Total	19	

Third Year

1st Semester			2 nd Semester		
Grade	Course Title	Units	Grade	Course Title	Units
	GE Core 5	3		GE Core 6	3
	GE Elec 4	3		GE Elec 5	3
	Fish 110	5		Stat 102	3
	Fish 119	3		Fish 117	3
	Elective 1	3		Fish 120	3
	Elective 2	3		Fish 196	3
				Elective 3	3
	Sub-Total	20		Sub-Total	21

MIDYEAR

Fish 195 Practicum	3
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Fourth Year

1st Semester			2 nd Semester		
Grade	Course Title	Units	GRade	Course Title	Units
	GE Core 7	3		PI 100	3
	Fish 104	3		Fish 118	3
	Fish 109	3		Fish 124	3
	Fish 147	3		Fish 150	5
	Elective 4	3		Elective 5	2-4
	Fish 200 *	2-4		Fish 200	(2)
	Sub-Total	17-19		Sub-Total	16-
					20

TOTAL NO. OF UNITS – 154-156

^{*}students can take Fish 200 once in the First Semester (4 u) or twice (2 u each). This can also be taken as early as the midyear of the third year.



