



**University of the Philippines Visayas**  
**College of Fisheries and Ocean Sciences**  
*Miagao, Iloilo*

**Curriculum**  
**Bachelor of Science in Fisheries**

First Semester	First Year Units	Second Semester	Units
GE (AH) 1*	3	GE (AH) 2*	3
GE (SSP) 1*	3	GE (SSP) 2	3
GE (MST)-1	3	GE (MST)-2	3
Mathematics 11 College Algebra	3	Mathematics 14 Plane Trigonometry	3
Biology 10 General Biology	5	Chemistry 11 General & Inorganic Chemistry	5
P.E. 1	(2)	P.E. 2 Swimming	(2)
NSTP I	(3)	NSTP II	(3)
Sub-Total	17	Sub-Total	17
<b>Second Year</b>			
GE (AH)-3	3	GE (AH)-4	3
GE (SSP)-3	3	Mathematics 101 Elementary Statistics	3
Chemistry 23 Inorganic Analytical Chem	5	Physics 21 Intro to Physics	4
Fisheries 101 Aquatic Fauna & Flora	5	Fisheries 102 Ichthyology	4
Fisheries 137 Fishing Technology	3	Fisheries 125 Aquaculture Technologies	5
P.E.	(2)	P.E.	(2)
Sub-Total	19	Sub-Total	19
<b>Third Year</b>			
GE (SSP)-4	3	GE (AH)-5	3
Mathematics 100 Intro to Calculus	4	Chemistry 40 Elementary Biochemistry	3
Chemistry 31 Elem. Org. Chemistry, Lect	3	Fisheries 133 Aquatic Ecosystems	5
Chemistry 31.1 Elem. Org. Chemistry, Lab	2	Fisheries 140 Fish Stock Assessment	3
Fisheries 148 Fish. Post Harvest Technologies	5	Elective	3
Fisheries 154 Fisheries Microbiology	3	Elective	2-4
Sub-Total	20	Sub-Total	19-21
SUMMER			
Fish 197* PRACTICUM 3 units			
<b>Fourth Year</b>			
GE (MST)-3	3	GE (SSP)-5	3
P.I. 100 Life and Works of Dr. Jose Rizal	3	Fisheries 118 Fish. Policies and Institutions	2
Fisheries 109 Physiology of Aqua Organisms	3	Fisheries 124 Fisheries Extension	2
Fisheries 147 Fish Genetics	3	Fisheries 150 Fisheries Management	3
Fisheries 198** Special Problem	3	Fisheries 104 Intro to Fisheries Entrepreneurship	3
Fisheries 200*** Undergraduate Thesis	3	Elective	2-3
Elective	3		
Sub-Total	18	Sub-Total	15-16

**TOTAL NO. OF UNITS                      144-150**

**\*Additional G.E. Requirements:**

*Students are required to take 6 units in Communication courses, 3 units of which must be in written communication (e.g. Comm 1, Comm 2, or Eng 2);*  
*Students are required to take 3 units in Philippine Studies in any domain (e.g. Hist 1 or Lit 1)*

**\*\*Non-thesis option: Fish 197 and Fish 198 only**

**\*\*\*Thesis option: Fish 200 only**



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**FOUNDATION COURSES: 40 units**

Bio 10 General Biology	5
Chem 11 General and Inorganic Chemistry	5
Chem 23 Inorganic Analytical Chemistry	5
Chem 31 Elem Organic Chemistry, lect	3
Chem 31 Elem Organic Chemistry, lab	2
Chem 40 Elem Biochemistry, lect	3
Math 11 College Algebra	3
Math 14 Plane Trigonometry	3
Math 100 Introduction to Calculus	4
Math 101 Elem Statistics	3
Physics 21 Introduction to Physics, lect	4

**CORE COURSE: 46 units**

Fish 101 Aquatic Fauna and Flora	5
Fish 102 Ichthyology	4
Fish 109 Physiology of Aquatic Organisms	3
Fish 118 Fisheries Policies and Institution	2
Fish 124 Fisheries Extension	2
Fish 125 Aquaculture Technologies	5
Fish 133 Aquatic Ecosystems	5
Fish 137 Fishing Technology	3
Fish 140 Fish Stock Assessment	3
Fish 147 Fish Genetics	3
Fish 148 Fisheries Post Harvest Tecnologies	5
Fish 150 Fisheries Management	3
Fish 154 Fisheries Microbiology	3

**ELECTIVES (Choice of 4 courses, minimum of 10 units) 10-13 units**

**LIST OF ELECTIVES:**

Fisheries 107 Aquatic Invertebrates	3	Bio 150 Intro to Molecular and Cell Biology	3
Fisheries 111 Phycology	3	Bio 151 Environment Management	3
Fisheries 115 Nutrition of Aquatic Animals	3	Bio 152 Principles of Molecular Bio & Biotech	3
Fisheries 116 Hatchery Management	3	Bio 169 Biogeography	3
Fisheries 117 Health Management in Aquaculture	3	Chem 40.1 Elem Biochemistry, Lab	2
Fisheries 119 Aquaculture Engineering	4	Chem 184 Chemistry of Food & Food Prod	3
Fisheries 134 GIS and Remote Sensing for Fisheries	3	CMSC 11 Introduction to Computer Science	3
Fisheries 151 Fishery Product Dev. & Value Addition	3	Math 153 Computer Programming I	3
Fisheries 155 Chemical Eval of Water & Aquatic Products	3	Econ 11 Introductory Economics	3
Fisheries 159 Fish Plant Management	3	Econ 102 Microeconomics	3
Fisheries 160 Fish Handling and Preservation Products	3	Econ 174 Economics of Fisheries	3
Fisheries 167 Actual Fishing	3	Acctg 1 Fundamentals of Mgt Acctg	3
Fisheries 171 Food Engr'g Applications in Fisheries	3	BA 101 Introduction to Business Mgt	3
Fisheries 180 General Oceanography	3	CM 102 Introduction to Cooperatives	3
Fisheries 191 Philippine Fishing Grounds	2	Mgt 170 Introduction to Marketing Mgt	3
Fisheries 196 Methods of Research	2		

*\*Including all other subjects that will be approved by the CFOS Faculty*



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***COURSE TITLE***

***COURSE DESCRIPTION AND PREREQUISITES***

- Fish 101 Aquatic Fauna and Flora. Biology of Aquatic Organisms, their Distribution and Evolution.  
Prereq: Biology 10      Credit: 5 units (3 hrs lect/6 hrs lab)
- Fish 102 Ichthyology. Morphology, Anatomy, Systematics and Distribution of Fishes, their Interrelationships with other Aquatic Biota. Prereq: Fish 101      Credit: 4 units (2 hrs lect/6 hrs lab)
- Fish 104 Introduction to Fisheries Entrepreneurship. The Study of the Theory and Practice of Entrepreneurship, including the Strategies and Application of the various Management Tasks and concerns in Planning and Managing a Fisheries Business  
Enterprise. Prereq: None      Credit: 3 units (3 hrs lect)
- Fish 107 Aquatic Invertebrates. Morphology, Anatomy and Systematics of Aquatic Invertebrates; their Biology and Interrelationships with other Aquatic Biota. Prereq: Fish 101      Credit: 3 units (2 hrs lect/3 hrs lab)
- Fish 109 Physiology of Aquatic Organisms. Physiology and Life History of Fishes and Aquatic Invertebrates.  
Prereq: Fish 102      Credit: 3 units (2 hrs lect/3 hrs lab)
- Fish 111 Phycology. Morphology, Physiology, Systematics and Distribution of Aquatic Plants; their role and interrelationship with other Aquatic Organisms. Prereq: None      Credit: 3 units (2 hrs lect/3 hrs lab)
- Fish 115 Nutrition of Aquatic Animals. Principles of Nutrition; Nutrient Requirements; Ration Formulation and Practical Feeding of Selected Finfishes and Shellfishes. Prereq: Chem 40, Fish 109      Credit: 3 units (2 hrs lect/3 hrs 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 lect/6 hrs 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 hrs lect/3 hrs lab)
- Fish 118 Fisheries Policies and Institution. Policies including Laws affecting Exploitation, Protection and Conservation of Fishery Resources; Codes of Conduct and Technical Standards for Food Safety and Handling. Prereq: None  
Credit: 2 units (2 hrs lect)
- Fish 119 Aquaculture Engineering. Principles and Methods of the Morphometry of Water Bodies. Site Selection, Survey Methodology, Designs, Construction, Installation and Maintenance of Aquaculture Facilities. Prereq: Physics 21, Fish 125      Credit: 4 units (2 hrs lect/6 hrs lab)
- Fish 124. Fisheries Extension. Objectives and Methodology of Technology Utilization, Transfer and Evaluation. Prerequisite: Senior Standing.      Credit: 2 units (2 hrs lect)
- Fish 125 Aquaculture Technologies. Principles and Methods of Aquaculture and Application of other sciences (Physical, Chemical, Biotechnological, Medical) to cultivation of Aquatic Organisms; recent development in Aquaculture.  
Prereq: None;      Credit: 5 units (3 hrs lect/6 hrs lab)
- Fish 133 Aquatic Ecosystems. The Study of Different Aquatic Environments, and their Chemical, Physical, Geological and Biological Components. Prereq: Chem 23      Credit: 5 units (3 hrs lect/6 hrs 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 hrs lect)
- Fish 137 Fishing Technology. Overview of Philippine Capture Fisheries; Classification of Fishing Gears; Materials for Fishing Gear; Development of Fishing Gear Technology.  
Prereq: Math 14.      Credit: 3 units (2 hrs lect/3 hrs lab/field exposure)
- Fish 140 Fish Stock Assessment. Methods in Assessing the Size and Status of Fish Stocks.  
Prereq: Math 100, Math 101; Fish 102, Fish 137      Credit: 3 units (3 hrs lect)



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- 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, Chem 40 and Math 101; Credit: 3 units ( 2 hrs lect/3 hrs lab)
- Fish 148 Fisheries Post Harvest Technologies. Handling, Cold Storage, Curing and Canning of Fish and Fishery Products. Prereq: None; Credit: 5 units (3 hrs lect/6 hrs lab)
- Fish 150 Fisheries Management. Principles and Methods of Managing Aquatic Resources in Marine, Brackish and Fresh water Ecosystems, including their Protection and Conservation. Prereq: Fish 133 and Fish 140. Credit: 3 units (2 hrs lect/3 hrs 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 148 Credit: 3 units (2 hrs lect/3 hrs 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 hrs lect/3 hrs 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 148, Chem 23, Chem 31 and Chem 31.1. Credit: 3 units (2 hrs lect/3 hrs lab)
- Fish 159 Fish Plant Management. Total Quality Management Applications to Fish Processing Plants. Prereq: Fish 148 Credit: 3 units (2 hrs lect/3 hrs lab)
- Fish 160 Fish Handling and Preservation Products. Handling of Live Fish and Low Temperature Preservation of Fish and Fishery Products. Prereq: Fish 148 & Fish 154. Credit: 3 units (2 hrs lect/3 hrs 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 lect/6 hrs lab)
- Fish 171 Food Engineering Application in Fisheries. Principles of Food Engineering Relevant to Fish Processing Operations and their Applications. Prereq: Fish 148. Credit: 3 units (2 hrs lect/3 hrs lab)
- Fish 180 General Oceanography. Relationship of the Oceans and the Atmosphere, and their Combined Influence on Chemical and Biological Processes. Prereq: Physics 21 & Chem 11. Credit: 3 units (3 hrs lect)
- 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 hrs lect)
- Fish 196 Methods of Research. Prereq: Senior Standing. Credit: 2 units (2 hrs lect)
- Fish 197 Practicum. Internship, Field Work or Extension service in Private or Government Establishments. Prereq: Senior Standing. Credit: 3 units
- Fish 198 Special Problem. Prereq: Senior Standing. Credit: 3 units
- Fish 200 Thesis. Undergraduate Thesis. Prereq: Senior Standing & Consent of the Inst. Director Credit: 3 units



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**RGEP COURSES:**

**1) ARTS AND HUMANITIES (AH) CLUSTER**

\*\*\*Communication 1      Communication Skills 1  
\*\*\*Communication 2      Communication Skills 2  
Communication 3      Speech Communication  
Humanities 1      Art, Society and the Individual  
\*\*\*Literature 1      Literature of the Philippines  
Literature 2      Literature of the World  
Literature 3      Literature, Society and the Individual  
\*\*\*English 2      Read Right, Write Right

**2) MATHEMATICS, SCIENCE, AND TECHNOLOGY (MST) CLUSTER**

*\*Aquatic Science 1 Fish Makes Sense*  
*\*Aquatic Science 16 Fish Beyond Capture*  
*\*Math 1            Mathematics for General Education*  
Biology 1      Understanding Life  
Biology 20      Microbes in Sickness and in Health  
Environmental Science 10      People and Environment  
*\*Natural Science 1 Foundations of Natural Science 1*  
Natural Science 2      Foundations of Natural Science 11  
*\*\*Math, Technology and Society 40      Science, Technology and Society*

**3) SOCIAL SCIENCE AND PHILOSOPHY (SSP) CLUSTER**

\*\*\*History 1      Philippine History  
History 2      Asia and the World  
Philosophy 1      Philosophical Analysis  
Psychology 10      Looking at the Self Through Different Psychological Perspective  
Social Science 1      Foundations of Behavioral Sciences  
Social Science 2      Social, Economic and Political Thought  
Social Science 5      Understanding Gender  
Social Science 10      Changing Asia  
*\*\*Social Science 26      People, Places and Spaces in a Changing World*

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\*Not applicable as GE for B.S. Fisheries Curriculum

\*\*For upper classmen only

\*\*\*students are required to take 6 units of written comm (Comm 1; 2 & Engl 2); and  
3 units of Philippine Studies (Hist 1 or Lit 1)