

UNIVERSITY GRADUATE PROGRAMS
SILLIMAN UNIVERSITY
DUMAGUETE CITY

MASTER OF SCIENCE IN COASTAL RESOURCE MANAGEMENT
(Revised SY 2009-10)

Core Courses (15 units)

CRM 101	Elements of Research	3
CRM 102	Ecosystems	3
CRM 107	Principles and Techniques in CRM	3
CRM 106	Socio-cultural Impacts of the Environment	3
CRM 103	Environmental Laws & Policies	3

Major Courses (9 units)

CRM 116	Environmental Impact & Resource Assessment	3
CRM 122	Administration of Coastal Resources	3
CRM 117	Capacity Building	3
CRM 112	Environmental Economics & Sustainable Development	3
CRM 118	Design & Planning of the Coastal Zone	3
CRM 119	Human Population in the Coastal Zone	3
CRM 124	Economics of Natural Resources	3
CRM 121	Hydrography and Mapping of the Coastal Zone	3
CRM 120	Education, Information and Communication	3

Electives (6 units)

CRM 133	Environmental Communication Techniques	3
CRM 129	Land Use	3
CRM 125	Aquaculture and the Environment	3
CRM 132	Fishing in Coastal Zone	3
CRM 131	Pollution in the Coastal Zone	3
CRM 126	Travel & Tourism Industry & Management	3
CRM 128	Water Quality Management	3

Thesis Writing (6 units)

CRM 300	Thesis	6
	TOTAL NUMBER OF UNITS	36 units

Course Description

- CRM 101- **Elements of Research**
An introduction of the basic principles of scientific research including techniques in the collection, analysis and presentation of data
- CRM 102- **Ecosystems**
Focuses on the different ecosystems, their components and interactions between them, with special emphasis on coastal ecosystems.
- CRM 107- **Principles and Techniques in Coastal and Resource Management**
History of coastal resource management as applied in the Philippines and other countries.
- CRM 106- **Socio-cultural Impacts on the Environment**
Different cultural settings of people, their historical and present-day utilization of the resources; the evolution of behavior towards the environment and its utilization; the roles and effects of major socio-cultural factors of population growth and other demographic process (fertility, mortality and immigration) on the status of the environment.
- CRM 103- **Environmental Laws and Policies**
An overview of the existing international and national laws which are relevant to the environment
- CRM 116- **Environmental Impact & Resource Assessment**
Identification of parameters for consideration in EIRA; factors considered in the selection, modification and development of EIRA methods; analysis of impacts on the environment.
- CRM 122- **Administration of Coastal Resources**
Policies in the administration of resources, specially coastal resources; includes communal ownership, tenure, open access and community-based equitable allocations of coastal resources.
- CRM 117- **Capacity Building**
A leadership challenge to aid in the development of characteristics desirable in community workers; includes techniques in dealing with communities, traditional leaders and politicians and in organizing communities and resolving conflicts.
- CRM 112- **Environmental Economics & Sustainable Development**
Analyzes the intrinsic value of natural resources; the profits derived from a development enterprise as against the long term of mitigation and regeneration of damaged ecosystems.
- CRM 118- **Design & Planning of the Coastal Zone**
Analysis of design and plan (functional, economic, social, aesthetic); factors for consideration during the planning process; impact(s) of the design and plan on the environment; feasibility studies of the proposed development.
- CRM 119- **Human Population in the Coastal Zone**
Analysis of the impacts on human populations on the coastal zone; includes the collection, analysis and presentation of demographic data.
- CRM 116- **Economics of Natural Resources**
Natural resource valuation techniques, cost benefit analysis of natural resources, environmental and natural resource accounting.
- CRM 117- **Information Technology**

Concepts in environmental education, techniques in the dissemination of environmental information; development of communication skills.

- **CRM 121-**
Hydrography and Mapping of the Coastal Zone
Focuses on the measurements of physical characteristics (conditions, boundaries and others) of waters and marginal lands; includes the use of computer programs such as Google Earth and mapping programs such as autocad, surfers and others.
- **CRM 120-**
Education, Information and Communication
Includes concepts in environmental education, techniques in the dissemination of environmental information; development of communication skills
- **CRM 133-**
Environmental Communication Techniques
Issues, concerns, approaches and strategies in communication as applies to environmental management with emphasis on indigenization and other cultural interventions.
- **CRM 122-**
Geography and Mapping
Introduction to geography and techniques in mapping of the coastal zone and its resources.
- **CRM 129-**
Land Use
Use of land both in the upland and coastal environments with emphasis of the landscape approach to the wise utilization of resources.
- **CRM 125-**
Aquaculture and the Environment
Study of existing aquaculture and mariculture techniques; design, management and economics of the techniques and the impacts of these techniques to the environment (includes water management, land conservation, use of chemicals)
- **CRM 132-**
Fishing in Coastal Zone
Analysis of the impacts of fishing practices in the coastal zone; includes the collection, analysis and presentation of fisheries profile, fishery enumeration and test fishing.
- **CRM 131-**
Pollution in the Coastal Zone
Air, water and soil pollution with emphasis on the roles of the coastal populations.
- **CRM 126-**
Travel and Tourism Industry & Management
The identification and development of features in the locality that have a tourism potential; requirements for the development of the site (feasibility studies, information collection and dissemination); management techniques involved travel and tourism, identification of potential effects to tourism on the locale.
- **CRM 128-**
Water Quality Management
Biological and chemical characteristics of water, methodologies of water analysis (coliform counts, total suspended solids and sedimentation, phosphates and nitrates); significance of water quality to the coastal zone and its inhabitants.
- **CRM 300-**
Thesis Writing