CORE COURSES

Course Number	Course Name	Course Description	Credit
Meteo 201	Synoptic Meteorology	Mesoscale to planetary scale	4 units
		weather systems of the general	
		circulation with emphasis in	
		synoptic scale systems	
Meteo 211	Climatology	Climate and climate systems	3 units
		including integration of	
		dynamic, physical,	
		biogeochemical, and	
		anthropogenic bases of climate	
		and climate systems	
Meteo 221	Physical Meteorology	Fundamentals of physical	4 units
		atmospheric processes with	
		emphasis in the	
		thermodynamics of the	
		atmosphere and principles of	
		radiative transfer	
Meteo 231	Dynamic Meteorology	Fundamentals of fluid	4 units
(Prereq: 221)		dynamics, physical laws of	
		conservations of mass,	
		momentum, and energy applied	
		to various horizontal and	
		vertical scale motions;	
		circulation and vorticity	

REQUIRED COURSE

Course Number	Course Name	Course Description	Credit
Meteo 296	Graduate Seminar		1 unit
Meteo 395	Advanced Studies in		4 units
	Meteorology		

ELECTIVE COURSES

Course Number	Course Name	Course Description	Credit
Meteo 203	Methods of Analytical	Mathematical and numerical	3 units
	Meteorology and	methods in meteorology and	
	Oceanography	oceanography; principles of	
		statistical analysis; computer	
		programming	
Meteo 204	Tropical Meteorology	Low latitude dynamics; survey	3 units
(Prereq: 201, 231)		of tropical disturbances;	
		development, structure and	
		movement of tropical cyclones	

Meteo 205	Atmospheric Science for Teachers	A qualitative course in meteorology designed for	3 units
Meteo 206 (Prereq: 201)	Hydrometeorology	Integration of hydrology and meteorology focusing on precipitation, surface flow, and groundwater flow, and their observation, analysis,	3 units
Meteo 212 (Prereq: 211)	Climate Monitoring and Prediction	Analysis of climate data, its application and utility in global climate models; climate monitoring principles; statistical and dynamical techniques; climate modeling and parameterization; coupling and interactions	3 units
Meteo 213 (Prereq: 211)	Agrometeorology	Implications of meteorological processes to agriculture including soil and heat balance, hydrological cycle, small-scale climate, agrometeorological management at microscale and topscale, and operational agrometeorology	3 units
Meteo 222 (Prereq: 221)	Satellite Meteorology	Principles and applications of remote sensing technology to meteorology; nature of radiation, absorption, emission, reflection and scaterring; radiative transfer equation, surface temperature, cloud detection; satellite observations; data acquisition, handling and processing; interpretation of satellite data	3 units
Meteo 223 (Prereq: 201)	Radar Meteorology	Principles and applications of radar to meteorology; radar systems; radar data acquisition, handling and processing; integration of radar principles to synoptic and dynamic processes in the atmosphere	3 units
Meteo 224	Air Pollution Meteorology	Interelationships between meteorology and air pollution; role of contaminants I climate change and stratosphere ozone depletion; dispertion; dispersion modeling; legislations and mitigations	3 units
Meteor 232 (Prereq: 231)	Advance Dynamic Meteorology	Fluid dynamics applied to atmospheric flows over synoptic scale motions,	3 units

		mesoscale and general	
		cicculations, and tropical and	
		middle atmosphere dynamics	
Meteo 233	Geophysical Fluid	Kinematics of fluid flow on a	3 units
	Dynamics	rotating sphere such as	5 units
	2 y namitos	fundamental dynamics	
		barotropic and vortex	
		dynamics, rotating shallow-	
		water and wave dynamics.	
		baroclinic and jet dynamics.	
		and boundary-layer and wind-	
		gyre dynamics	
Meteo 297	Special Topics	gyre dynamics	3 units
Meteo 234	Numerical Weather	Examination evaluation and	3 units
(Prereg: 221.	Prediction	application of numerical	5 units
231)		models for weather diagnosis	
201)		and forecasting	
Meteo 225	Cloud and Precipitation	Dynamics and microphysical	3 units
(Prereg: 221)	Physics	processes of cloud and rain	0 411100
(1 1 9 0 1 0 0	formation, modeling and	
		parameterization, and cloud	
		modification	
Env. Sci. 212	Environmental Problems	Current and prospective	3 units
	and Issues	environmental problems and	
		issues of critical concern in the	
		context of sustainable	
		development and other	
		management development	
		strategies	
Env. Sci. 282	Environmental Planning,	Framework and techniques of	3 units
	Risk, and Assessment	environmental planning, risk,	
		and Impact assessment; the	
		Philippine Environmental	
		Impact Statement (EIS) system	
Meteo 321	Research Problems in	Advanced applications of	2 units
	Weather	weather research	
Meteo 331	Research Problems in	Advanced applications of	2 units
	Climate	climate research	
Meteo 341	Research Problems in	Advanced applications of	2 units
	Environmental	environmental meteorology	
	Meteorology	research	

THESIS

Course Number	Course Name	Course Description	Credit
Meteo 300	Master's Thesis		6 units
Meteo 396	Research Seminar		1 unit
Meteo 399	Independent Doctoral		3 units
	Study		
Meteo 400	Ph.D. Dissertation		12 units