METEOROLOGY STUDY PLAN

SPECIALIZATION: BSc in Meteorology

Total Credits Hours = 141 C.H.

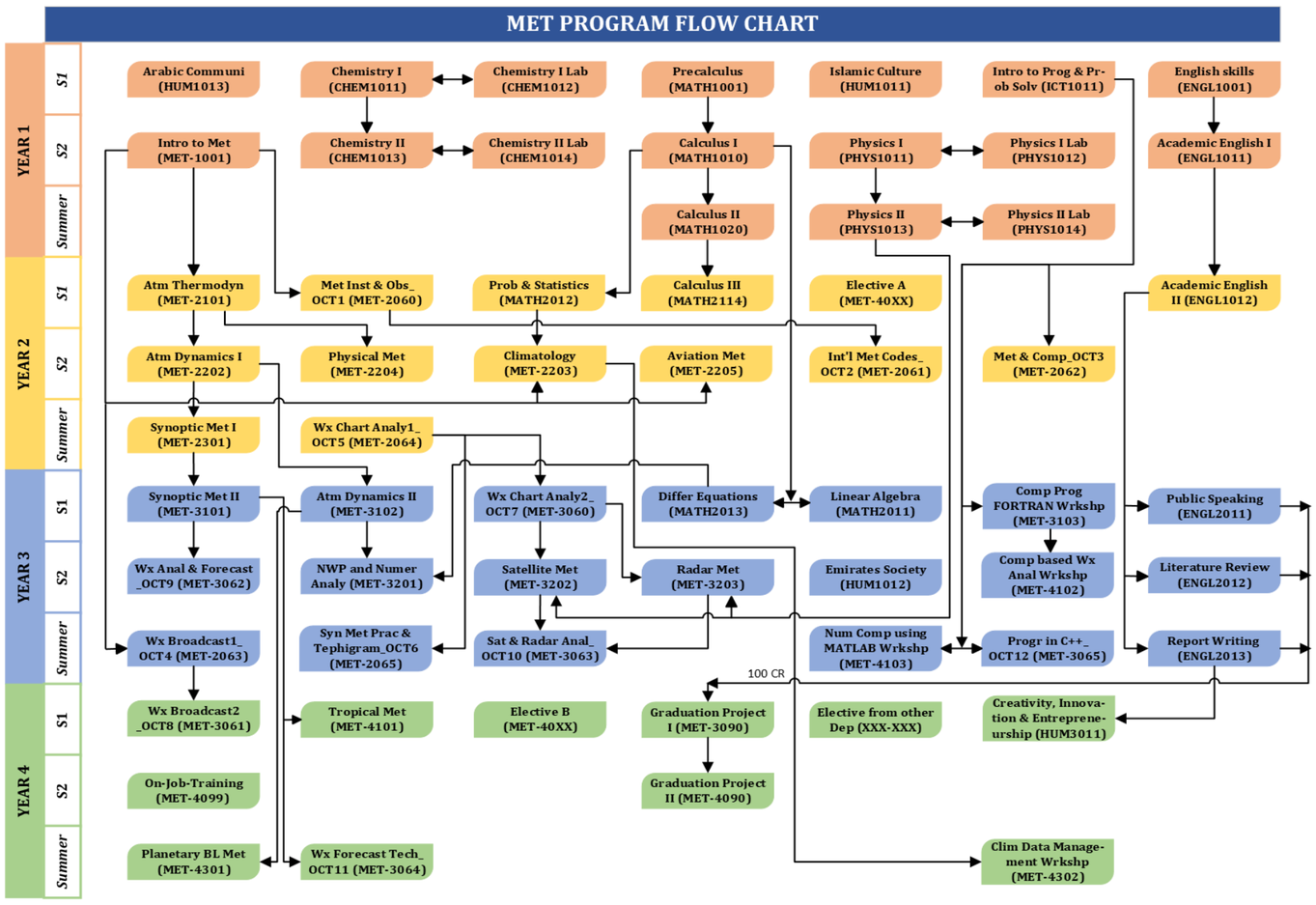
ADPOLY GENERAL REQUIREMENTS (30 C.H)

Subj Code & NO.	COURSE TITLE	C.H	SEM.	PRE- REQUISITE	SIT *	SEM AY
MATH1001	Precalculus	3	1, 2, 3	N / A		
MATH1010	Calculus I	3	1, 2, 3	MATH1001		
ICT1011	Intr to Programming & Problem Solving	3	1, 2, 3	N / A		
ENGL1001	English Skills	0	1,2,3			
ENGL1011	Academic English 1	3	1,2,3	ENGL1001 or IELTS 5.5		
ENGL1012	Academic English 2	3	1, 2, 3	ENGL1011 or IELTS 6.0 or EMSAT 1500		
ENGL2011	Public Speaking	1	1	ENGL1012		
ENGL2012	Literature Review (Blended L.)	1	2	ENGL1012		
ENGL2013	Report Writing (Blended L.)	1	3	ENGL1012		
HUM1011	Islamic Culture	3	1, 2, 3	N / A		
HUM1012	Emirati Society and Culture	3	1, 2, 3	N / A		
HUM1013	Arabic Communication Skills	3	1,2	N / A		
HUM3011	Creativity, Innovation & Entrepreneurship	3	1, 2, 3	ENGL2013		
PROGRAM GENERAL REQUIREMENTS (34 C.H)						
CHEM1011	Chemistry I	3	1,2,3	CO REQ CHEM1012		
CHEM1012	Chemistry I Lab	1	1,2,3	CO REQ CHEM1011		
PHYS1011	Physics I	3	1,2,3	CO REQ PHYS1012		
PHYS1012	Physics I Lab	1	1,2,3	CO REQ PHYS1011		
CHEM1013	Chemistry II	3	1,2,3	CO REQ CHEM1014		
CHEM1014	Chemistry II Lab	1	1,2,3	CO REQ CHEM1013		
MATH2012	Probability & Statistics	3	1,2	MATH1010		
MATH1020	Calculus II	3	1,2,3	MATH1010		
PHYS1013	Physics II	3	1,2,3	CO REQ PHYS1014		
PHYS1014	Physics II Lab	1	1,2,3	CO REQ PHYS1013		
MATH2114	Calculus III	3	1	MATH1020		
MATH2011	Linear Algebra	3	1, 2	MATH1010		
MATH2013	Differential Equations	3	1, 2	MATH1010		
XXX-XXX	Elective from other department	3	1,2,3			
Capstone / Graduation Project (6 C.H.) - Completion of 100 C.H.						
MET-3090	Graduation Project I	3	1	100 CR, ENGL2011, ENGL2012, ENGL2013		
MET-4090	Graduation Project II	3	2	MET-3090		
On-Job-Training (Internship) (6 C.H.) - Completion of 110 C.H.						
MET-4099	OJT	6	2	110 CR		
COMPULSARY SPECALIZATION ELECTIVES (6 C.H.)						
Elective-A Basket (Choose 3 CR)						
MET-4050	Map & GIS	3	1			
MET-4051	Oceanography	3	1	MET-1001		
MET-4052	Environmental Quality	3	1	MET-1001		
MET-4066	Marine Meteorology	3	1	MET-1001		
MET-4054	Hydrology & Water Resources	3	1	MET-1001		
Elective-B Basket (Choose 3 CR)						
MET-4060	Mesometeorology	3	1	MET-3101		
MET-4061	Regional Synoptic Met	3	1	MET-3101		
MET-4062	Long Range Forecast	3	1	MET-3101		
MET-4063	Global Climate Changes	3	1	MET-2203		
MET-4064	Air Pollution	3	1	MET-1001		
MET-4065	Atmospheric Waves	3	1	MET-3102		
MET-4053	Agrometeorology	3	1	MET-1001		

SPECIALIZATION REQUIREMENTS (53 C.H.)

Subj Code & NO.	COURSE TITLE	C.H	SEM.	PRE- REQUISITE	SIT *	SEM AY
MET-1001	Introduction to Meteorology	3	2			
MET-2101	Atm Thermodynamics	3	1	MET-1001, CO REQ MATH1020		
MET-2202	Atm Dynamics I	3	2	MET-2101		
MET-2203	Climatology	3	2	MET-1001, MATH2012		
MET-2204	Radiation and Cloud Physics	4	2	MET-2101		
MET-2205	Aviation Met	3	2	MET-1001		
MET-2301	Synoptic Met I	3	3	MET-2202		
MET-3101	Synoptic Met II	3	1	MET-2301		
MET-3102	Atm Dynamics II	3	1	MET-2202		
MET-3201	NWP & Numerical Analysis	3	2	MET-3102, MATH2013		
MET-3202	Satellite Meteorology	3	2	PHYS1013, MET-3060		
MET-3203	Radar Meteorology	3	2	PHYS1013, MET-3060		
MET-3103	Computer Programming Fortran Workshop	1	1	ICT 1011		
MET-40XX	Elective A	3	1			
MET-4102	Computer Based Weather Analysis Workshop	1	2	MET-3103		
MET-4103	Numerical Comp Using MATLAB Workshop	1	3	ICT 1011		
MET-4302	Climate Data Management Workshop	1	3	MET-2203		
MET-40XX	Elective B	3	1			
MET-4101	Tropical Met	3	1	MET-3101		
MET-4301	Planetary BL Met	3	3	MET-3102		
On-Campus-Training (OCT) - (12 C.H.) (ALL OCTs are MANDATORY)						
MET-2060	Met Instrum & Observ_OCT1	1	1	MET-1001		
MET-2061	Internal Met Codes_OCT2	1	2	MET-2060		
MET-2062	Meteorology & Computing_OCT3	1	1	ICT 1011		
MET-2063	Weather Broadcast 1_OCT4	1	S	MET-1001		
MET-2064	Weather Chart Analysis 1_OCT5	1	S	MET-1001		
MET-2065	Synop Met practice & Teph_OCT6	1	S	MET-2064		
MET-3060	Weather Charts Analysis 2 _OCT7	1	S	MET-2064		
MET-3061	Weather Broadcast 2_OCT8	1	S	MET-2063		
MET-3062	Weather Analysis and Forecasting _OCT9	1	S	MET-3101		
MET-3063	Satellite & Radar Analyses_OCT10	1	S	MET-3202, MET-3203		
MET-3064	Weather Forecasting Techniques_OCT11	1	S	MET-3101		
MET-3065	Programming in C++_OCT12	1	S	ICT 1011		

NOTES:

Subject	CR	%
English	9	6.383
Humanities	12	8.511
Math & Science	37	26.24
Programming	3	2.128
Engineering - ASD	3	2.128
Engineering - Major (Meteorology)	59	41.84
OJT	18	12.77
Total	141	100

MET PROGRAM FLOW CHART