

METEOROLOGY STUDY PLAN

SPECIALIZATION: BSc in Meteorology

Total Credits Hours = 141 C.H.

| ADPOLY GENERAL REQUIREMENTS (30 C.H) | | | | | | | SPECIALIZATION REQUIREMENTS (53 C.H.) | | | | | | |
|--|---|------|---------|-------------------------------------|-----|--------|---|--|-------|------|---------------------------|-----|--------|
| Subj Code & NO. | COURSE TITLE | C. H | SEM. | PRE- REQUISITE | SIT | SEM AY | Subj Code & NO. | COURSE TITLE | C.H | SEM. | PRE- REQUISITE | SIT | SEM AY |
| MATH1001 | Precalculus | 3 | 1, 2, 3 | N / A | | | MET-1001 | Introduction to Meteorology | 3 | 2 | | | |
| MATH1010 | Calculus I | 3 | 1, 2, 3 | MATH1001 | | | MET-2101 | Atm Thermodynamics | 3 | 1 | MET-1001, CO REQ MATH1020 | | |
| ICT1011 | Intr to Programming & Problem Solving | 3 | 1, 2, 3 | N / A | | | MET-2202 | Atm Dynamics I | 3 | 2 | MET-2101 | | |
| ENGL1001 | English Skills | 0 | 1,2,3 | | | | MET-2203 | Climatology | 3 | 2 | MET-1001, MATH2012 | | |
| ENGL1011 | Academic English 1 | 3 | 1,2,3 | ENGL1001 or IELTS 5.5 | | | MET-2204 | Physical Met | 4 | 2 | MET-2101 | | |
| ENGL1012 | Academic English 2 | 3 | 1, 2, 3 | ENGL1011 or IELTS 6.0 or EMSAT 1500 | | | MET-2205 | Aviation Met | 3 | 2 | MET-1001 | | |
| ENGL2011 | Public Speaking | 1 | 1 | ENGL1012 | | | MET-2301 | Synoptic Met I | 3 | 3 | MET-2202 | | |
| ENGL2012 | Literature Review (Blended L.) | 1 | 2 | ENGL2011 | | | MET-3101 | Synoptic Met II | 3 | 1 | MET-2301 | | |
| ENGL2013 | Report Writing (Blended L.) | 1 | 3 | ENGL2012 | | | MET-3102 | Atm Dynamics II | 3 | 1 | MET-2202 | | |
| HUM1011 | Islamic Culture | 3 | 1, 2, 3 | N / A | | | MET-3201 | NWP & Numerical Analysis | 3 | 2 | MET-3102, MATH2013 | | |
| HUM1012 | Emirati Society and Culture | 3 | 1, 2, 3 | N / A | | | MET-3202 | Satellite Meteorology | 3 | 2 | PHYS1013, MET-3060 | | |
| HUM1013 | Arabic Communication Skills | 3 | 1, 2 | N / A | | | MET-3203 | Radar Meteorology | 3 | 2 | PHYS1013, MET-3060 | | |
| HUM3011 | Creativity, Innovation & Entrepreneurship | 3 | 1, 2, 3 | | | | MET-3103 | Computer Programming Fortran Workshop | 1 | 1 | ICT 1011 | | |
| PROGRAM GENERAL REQUIREMENTS (34 C.H) | | | | | | | MET-40XX | Elective A | 3 | 1 | | | |
| CHEM1011 | Chemistry I | 3 | 1,2,3 | CO REQ CHEM1012 | | | MET-4102 | Computer Based Weather Analysis Workshop | 1 | 2 | MET-3103 | | |
| CHEM1012 | Chemistry I Lab | 1 | 1,2,3 | CO REQ CHEM1011 | | | MET-4103 | Numerical Comp Using MATLAB Workshop | 1 | 3 | ICT 1011 | | |
| PHYS1011 | Physics I | 3 | 1,2,3 | CO REQ PHYS1012 | | | MET-4302 | Climate Data Management Workshop | 1 | 3 | MET-2203 | | |
| PHYS1012 | Physics I Lab | 1 | 1,2,3 | CO REQ PHYS1011 | | | MET-40XX | Elective B | 3 | 1 | | | |
| CHEM1013 | Chemistry II | 3 | 1,2,3 | CO REQ CHEM1014 | | | MET-4101 | Tropical Met | 3 | 1 | MET-3101 | | |
| CHEM1014 | Chemistry II Lab | 1 | 1,2,3 | CO REQ CHEM1013 | | | MET-4301 | Planetary BL Met | 3 | 3 | MET-3102 | | |
| MATH2012 | Probability & Statistics | 3 | 1,2 | MATH1010 | | | On-Campus-Training (OCT) - (12 C.H.) (ALL OCTs are MANDATORY) | | | | | | |
| MATH1020 | Calculus II | 3 | 1,2,3 | MATH1010 | | | MET-2060 | Met Instrum & Observ. OCT1 | 1 | 1 | MET-1001 | | |
| PHYS1013 | Physics II | 3 | 1,2,3 | CO REQ PHYS1014 | | | MET-2061 | Internal Met Codes OCT2 | 1 | 2 | MET-2060 | | |
| PHYS1014 | Physics II Lab | 1 | 1,2,3 | CO REQ PHYS1013 | | | MET-2062 | Meteorology & Computing OCT3 | 1 | 1 | ICT 1011 | | |
| MATH2114 | Calculus III | 3 | 1 | MATH1020 | | | MET-2063 | Weather Broadcast 1_OCT4 | 1 | 5 | MET-1001 | | |
| MATH2011 | Linear Algebra | 3 | 1, 2 | MATH1010 | | | MET-2064 | Weather Chart Analysis 1_OCT5 | 1 | 5 | MET-1001 | | |
| MATH2013 | Differential Equations | 3 | 1, 2 | MATH1010 | | | MET-2065 | Synop Met practice & Teph_OCT6 | 1 | 5 | MET-2064 | | |
| XXX-XXX | Elective from other department | 3 | 1,2,3 | | | | MET-3060 | Weather Charts Analysis 2_OCT7 | 1 | 5 | MET-2064 | | |
| Capstone / Graduation Project (6 C.H.) - Completion of 75 C.H. | | | | | | | MET-3061 | Weather Broadcast 2_OCT8 | 1 | 5 | MET-2063 | | |
| MET-3090 | Graduation Project I | 3 | 1 | 75 CR | | | MET-3062 | Weather Analysis and Forecasting OCT9 | 1 | 5 | MET-3101 | | |
| MET-4090 | Graduation Project II | 3 | 2 | MET-3090 | | | MET-3063 | Satellite & Radar Analyses OCT10 | 1 | 5 | MET-3202, MET-3203 | | |
| On-Job-Training (Internship) (6 C.H.) - Completion of 110 C.H. | | | | | | | MET-3064 | Weather Forecasting Techniques_OCT11 | 1 | 5 | MET-3101 | | |
| MET-4099 | OJT | 6 | 2 | 110 CR | | | MET-3065 | Programming in C++ OCT12 | 1 | 5 | ICT 1011 | | |
| COMPULSARY SPECIALIZATION ELECTIVES (6 C.H.) | | | | | | | | | | | | | |
| Elective-A Basket (Choose 3 CR) | | | | | | | | | | | | | |
| MET-4050 | Map & GIS | 3 | 1 | | | | | | | | | | |
| MET-4051 | Oceanography | 3 | 1 | | | | | | | | | | |
| MET-4052 | Environmental Issues | 3 | 1 | | | | | | | | | | |
| MET-4056 | Marine Meteorology | 3 | 1 | MET-1001 | | | NOTES: | | | | | | |
| MET-4054 | Hydrology & Water Resources | 3 | 1 | | | | Subject | CR | % | | | | |
| Elective-B Basket (Choose 3 CR) | | | | | | | | | | | | | |
| MET-4060 | Mesometeorology | 3 | 1 | MET-3101 | | | English | 9 | 6.383 | | | | |
| MET-4061 | Regional Synoptic Met | 3 | 1 | MET-3101 | | | Humanities | 12 | 8.511 | | | | |
| MET-4062 | Long Range Forecast | 3 | 1 | MET-3101 | | | Math & Science | 37 | 26.24 | | | | |
| MET-4063 | Global Climate Changes | 3 | 1 | MET-2203 | | | Programming | 3 | 2.128 | | | | |
| MET-4064 | Air Pollution | 3 | 1 | MET-1001 | | | Engineering - ASD | 3 | 2.128 | | | | |
| MET-4065 | Atmospheric Waves | 3 | 1 | MET-3102 | | | Engineering - Major (Meteorology) | 59 | 41.84 | | | | |
| MET-4053 | Agrometeorology | 3 | 1 | | | | OJT | 18 | 12.8 | | | | |
| | | | | | | | Total | 141 | 100 | | | | |