**CHECKLIST FOR ATMOSPHERIC SCIENCES UNDERGRADUATES (BS)**

STUDENT NAME I.D. NUMBER

EMAIL: PHONE:

SEMESTER & YEAR ENTERED UH: CLASS STATUS UPON ENTRY @ UH:

ADVISOR: SEMESTER & YEAR ENTERED ATMO:

**SOEST REQUIREMENT:** □ OEST 100, The College Experience (1)

**BASIC REQUIREMENTS (30 credits):**

□ CHEM 161, General Chemistry (3) □ CHEM 162, General Chemistry II (3) □ □ □ CHEM 161L, General Chemistry Lab (1)

□ MATH 241, Calculus I (4) □ MATH 243, Calculus III (3)

□ MATH 242, Calculus II (4) □ MATH 244, Calculus IV (3)

□ PHYS 170, General Physics I (4) □ PHYS 272, General Physics II (3)

□ PHYS 170L, General Physics I Lab (1) □ PHYS 272L, General Physics II Lab (1)

**ATMO REQUIRED:** (22 credits)

□ ATMO 101L Introduction to Meteorology Lab (1)

□ ATMO 200 Atmospheric Processes and Phenomena (3)

□ • ATMO 302 Atmospheric Physics (3)

□ • ATMO 303 Introduction to Atmospheric Dynamics (3)

□ • ATMO 305 Meteorology Instruments Observations (3)

□ • ATMO 320 Programming for Meteorologists (3) **OR** ICS 111 Introduction to Computer Sciences I (4) (Intro-level course)

□ • ATMO 402 Applied Atmospheric Dynamics (3)

□ • ATMO 412 Meteorological Analysis Lab **OR** ATMO 416 Tropical Analysis Lab (4)

**ELECTIVES** (15 credits)

15 credits from physical and mathematical sciences course such as those courses with DP designations as opposed to those

With DS designations. These include (but are not limited to) courses in engineering, geography, geology and geophysics,

Information and computer sciences, mathematics, oceanography, physics, and soil sciences.

□•GG 312, Adv. Math for Scientists & Engineers I (3) □ ICS 211, Introduction to Computer Science II (3)

□•GG 455, Hydrogeology (4) □•ICS 311, Algorithms (3)

□•GG 421, Geologic Record of Climate Change (3) □•ICS 442, Analytical Models Methods (3)

□•GG 460, Geological Remote Sensing (4)

□•MATH 302, Introduction to Differential Equations I (3)

□•ATMO 310, Global Environmental Change (3) □•MATH 303, Introduction to Differential Equations II (3)

□•ATMO 405, Satellite Meteorology (3) □•MATH 311, Introduction to Linear Algebra (3)

□•ATMO 406, Tropical Meteorology (3) □•MATH 371, Elementary Probability Theory (3)

□•ATMO 600, Atmospheric Dynamics I (3) □•MATH 373, Elementary Statistics (3)

□•MATH 402, Partial Differential Equations I (3)

□•OCN 320, Aquatic Pollution (3) □•MATH 405, Ordinary Differential Equations (3)

□•OCN 363, Earth System Science Databases (3)

□•OCN 401, Biogeochemical Systems (3) □ PHYS 274, General Physics III (3)

□•OCN 620, Physical Oceanography (4) □•PHYS 305, Computational Physics (3)

□•PHYS 400, Applications of Math.in Physical Sciences (3)

□•GEOG 300 Introduction to Climatology (3)

□•GEOG 303 General Geomorphology (3) □ • ( )

□•GEOG 400 Vegetation and the Climate System (3) □ • ( )

□•GEOG 401 Climate Change (3) □ • ( )

□•GEOG 402 Agricultural Climatology (3) □ • ( )

□•GEOG 403 Fluvial Geomorphology (3) □ • ( )

□•GEOG 405 Water in the Environment (3) □ • ( )

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• Denotes upper division course Fall 2017