

POTENTIAL TECHNICAL ELECTIVES FOR AOSS UNDERGRADUATES*

All Concentrations

AOSS 479	Atmospheric Chemistry (3)
EECS 283	Programming for Science and Engineering (4)
GEOSCI 420.....	Introductory Earth Physics (3)
MATH 371 or MATH 471	Numerical Methods for Engineers and Scientists (3) / Introduction to Numerical Methods (3)
STATS 426	Introduction to Theoretical Statistics (3) (pre-requisite is cross-listed class STATS/MATH 425)
NRE 441 (ENVIRON 441)	Remote Sensing of the Environment (4)

Climate Physics Concentration

AOSS 414	Weather Systems (3)
AOSS 420 (NA 420)	Environmental Ocean Dynamics (4)
AOSS 422	Boundary Layer Meteorology (4)
AOSS 440	Meteorological Analysis Laboratory (4)
AOSS 441	Mountain Meteorology and Climate of the Rockies (3-week spring/summer course at UM Camp Davis, Wyoming)
AOSS 450	Geophysical Electromagnetics (4)
AOSS 451	Atmospheric Dynamics (4)
AOSS 462	Instrumentation for Atmospheric and Space Sciences (4)
AOSS 463	Air Pollution Meteorology (3)
AOSS 499	Directed Study, research project with faculty member (1-4)
AOSS 480	Climate Change: Move to Action (3)
CEE 303	Computational Methods for Engineers and Scientists (4)
ENG 450	Multidisciplinary Design (4)
ENVIRON xxx	Check for classes that are climate / climate policy related
GEOSCI 421.....	Principles of Physical Oceanography (3)
GEOSCI 422.....	Principles of Geochemistry (3)
GEOSCI 425.....	Environmental Geochemistry (3)
GEOSCI 442.....	Earth Surface Processes and Soils (4)
GEOSCI 446	Principles of Paleoclimatology (3)
STATS/MATH 425	Introduction to Probability (3)
(if STATS 350 or STATS 412 is used for STATS requirement)	
MATH 450	Advanced Mathematics for Engineers (4)
STATS 350 or STATS 412	Introduction to Statistics and Data Analysis (4) / Introduction to Probability and Statistics (3)
(if STATS/MATH 425 is used for STATS requirement)	

Meteorology Concentration

AOSS 411	Clouds and Precipitation Processes (3)
AOSS 420 (NA 420)	Environmental Ocean Dynamics (4)
AOSS 422	Boundary Layer Meteorology (4) (might become required class)
AOSS 441	Mountain Meteorology and Climate of the Rockies (3-week spring/summer course at UM Camp Davis, Wyoming)
AOSS 450	Geophysical Electromagnetics (4)
AOSS 463	Air Pollution Meteorology (3)
AOSS 467	Biogeochemical Cycles (3)
AOSS 470	Solar Terrestrial Relations (4)
AOSS 499	Directed study, research project with faculty member (1-4)
CEE 303	Computational Methods for Engineers and Scientists (4)
ENG 450	Multidisciplinary Design (4)
GEOSCI 421	Principles of Physical Oceanography (3)
GEOSCI 422.....	Principles of Geochemistry (3)
GEOSCI 425.....	Environmental Geochemistry (3)
GEOSCI 442	Earth Surface Processes and Soils (4)
STATS/MATH 425	Introduction to Probability (3)
(if STATS 350 or STATS 412 is used for STATS requirement)	
MATH 450	Advanced Mathematics for Engineers (4)
STATS 350 or STATS 412	Introduction to Statistics and Data Analysis (4) / Introduction to Probability and Statistics (3)
(if STATS/MATH 425 is used for STATS requirement)	

Space Weather Concentration

AERO 325	Aerodynamics (4)
AERO 421	Engineering Aerodynamics (3), (prerequisite AERO 325)
AOSS 451	Atmospheric Dynamics (4)
AOSS 462	Instrumentation for Atmospheric and Space Sciences (4)
AOSS 495	Upper Atmosphere and Ionosphere (4)
EECS 320	Electromagnetics II (4), (prerequisite EECS 230)
EECS 430 (AOSS 431)	Radiowave Propagation and Link Design (4)
STATS/MATH 425 or STATS 412 or STATS 350	Introduction to Probability (3) / Introduction to Probability and Statistics (3) / Introduction to Statistics and Data Analysis (4)
NERS 471	Introduction to Plasmas (3)
Physics 340/341.....	Waves, Heat & Light (5)
Physics 405	Intermediate Electricity and Magnetism (3)
Physics 411	Introduction to Computational Physics (3)
Physics 451 / Physics 452	Methods of Theoretical Physics I / II (3 each)

*Other courses are possible please see your advisor for approval.
