Department of Atmospheric & Environmental Sciences

Graduate program in atmospheric & environmental sciences provides students an opportunity to grow to be an advanced professional who could produce scientific solutions to various challenging issues related to the atmospheric environment. The research area we are interested in is pretty wide from global climate change to atmospheric turbulence, which includes atmospheric dynamics, atmospheric radiation, satellite meteorology, climate science, cloud physics, atmospheric environmental science, atmospheric boundary layer, surface observations, numerical weather prediction, large eddy simulations, aerosol and air pollution meteorology, and etc. Through the graduate program, students could be equipped with advanced technologies such as satellite and radar related technologies, and techniques such as computer coding skills. Thus, students could go beyond atmospheric scientists, for example, to be data scientists. Faculties and staffs in the graduate program make our best effort to grow students to be a global leader particularly in the area of atmospheric & environmental sciences.

Information

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Professor Introduction

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Curriculum

Course Code	Course Title	Credit
551.502	Special Topics in Physical Meteorology	3-3-0
551.503	Advanced Dynamic Meteorology	3-3-0
551.504	Advanced Meteorological Statistics	3-3-0
551.509	Advanced Micro Meteorology	3-3-0
551.510	Data analysis and visualizations	3-3-0
551.645	Special Topics in Climate Change	3-3-0
551.608	Micro Climatology	3-3-0
551.609	Advanced Marine Meteorology	3-3-0
551.611	Special Topics in Mesoscale Meteorological Modelling	3-3-0
551.612	Advanced Air Pollution Modelling	3-3-0
551.614	Advanced Air Pollution Meteorology	3-3-0

551.615	Air Pollution Analysis & Estimation	3-3-0
551.621	Advanced Hydrometeorology	3-3-0
551.623	Special Topics in Cloud Physics	3-3-0
551.624	Special Topics in Atmospheric Radiation	3-3-0
551.625	Atmospheric Radiation Modelling	3-3-0
551.626	Special Topics in Atmospheric Optics	3-3-0
551.627	Special Topics in Atmospheric Wave Dynamics	3-3-0
551.629	Special Topics in Remote Sensing	3-3-0
551.630	Special Topics in Upper Atmosphere	3-3-0
551.631	Special Topics in Tropical Meteorology	3-3-0
551.633	Special Topics in Radar Meteorology	3-3-0
551.635	Advanced Synoptic Meteorology I	3-3-0
551.636	Advanced Synoptic Meteorology II	3-3-0
551.637	Special Topics in Dynamic Meteorology	3-3-0
551.638	Special Topics in General Circulation	3-3-0
551.640	Special Topics in Geophysical Fluid Dynamics	3-3-0
551.643	Special Topics in Mesoscale Meteorology	3-3-0
551.644	Advanced Satellite Meteorology	3-3-0
551.646	Information Technology in Meteorology	3-3-0
551.657	Climate Modeling I	3-3-0
551.658	Climate Modeling II	3-3-0
551.659	Special Issues on Climate Dynamics	3-3-0
551.651	Weather Analysis I	3-3-0
551.652	Weather Analysis II	3-3-0
551.655	Numerical Modeling and Prediction I	3-3-0

551.656	Numerical Modeling and Prediction II	3-3-0
551.662	Climate Change Impact Assessment	3-3-0
551.663	Geophysical Remote Sensing	3-3-0
551.664	Inverse Method	3-3-0
551.666	Disaster monitoring	3-3-0
551.669	Special Topics in Applied Atmospheric Science I	3-3-0
551.670	Special Topics in Applied Atmospheric Science II	3-3-0
551.671	Meso-and micro-meteorology	3-3-0
551.672	Seminar I	1-1-0
551.673	Seminar II	1-1-0
551.674	Seminar III	1-1-0
551.675	Seminar IV	1-1-0
551.676	Turbulence in the Atmosphere	3-3-0
551.677	Numerical Analysis in Meteorology	3-3-0
551.678	Special Topics in Meteorological Observation & Instrument	3-3-0
551.679	Special Topics in Applied Atmospheric Science III	3-3-0
551.680	Special Topics in Applied Atmospheric Science IV	3-3-0
551.681	Special Topics in Applied Atmospheric Science V	3-3-0
551.682	Special Topics in Applied Atmospheric Science VI	3-3-0