Typical Schedule:
M.S. in Environmental Engg. or M.S. in Environmental Engineering Science, with a focus on air quality science and engineering, for students advised by R. Honrath

Requirements

- Coursework credits: 20–22 (5000-level ≥12).
- Research and thesis (register for at least 10 research credits).

Each final schedule and thesis topic is agreed upon by the student and advisor.

Coursework

1. Mass balance, reactor analysis, kinetics, and mass transfer
   CE5501 Environmental Process Engineering (fall) (3)

2. Environmental chemistry
   CE4501 Environmental Engineering Chemical Processes (fall) (3)

3. Data analysis and statistics
   CE5243 Probabalistic Analysis and Reliability (fall) (3), or
   MA3730 Statistical methods (3)

4. Numerical methods; transport modeling
   GE5800 Mathematical Modeling of Earth Systems (spring) (3)

5–6. Atmospheric Science and Engineering
   CE5505 Atmospheric Chemistry (spring) (3), and
   One of:
   PH4640 Atmospheric Physics (fall) (3), or
   CE5xxx Atmospheric Boundary Layer Meteorology (spring) (3)

7. Non-atmospheric Environmental Engineering course: at least one of the following.
   CE5509CH5509 Environmental Organic Chemistry
   CE5508 Biogeochemical Processes
   CE5504 Surface Water Quality Modeling
   CE5507 Sorption and Biological Processes
   CE5502 Biological Treatment Processes

8. Seminars
   CE599x Environmental Engineering seminar (register once, attend always)
   UN4000 Remote Sensing Seminar (1)

Courses for students who have taken some of the above, and for doctoral students

CH4210 Instrumental Analysis
MA4710 Regression Analysis
CE4504 Air Quality Engineering and Science (fall) (3)
GE4250 Remote Sensing Fundamentals (spring) (3)
FW4540 Remote sensing of the environment (fall) (3)