

* (Note: Core Courses and Electives listed are for the Engineering The Future Funding Program - Students must also satisfy their University's degree requirements regarding core courses and electives, which may differ from those listed here.)

Summary of Course Requirements

| Descriptions for Core Courses (Required) | | Elective Courses (must take 3) |
|--|---|---|
| <p>Northwestern University</p> | <p>CIV ENG 442 Processes in Environmental Biotechnology Theory and practice of microbiological processes used in pollution control: kinetics of suspended growth and fixed-film processes, activated sludge, biofilm processes, nitrogen and phosphorus removal, methanogenesis.</p> | <p>CIV ENG 444 Physical/Chemical Processes in Environmental Control - Theory and practice of separations and conversions in water quality and residuals management. Water quality, coagulation, adsorption, ion exchange, membranes, oxidation, sedimentation, flocculation, filtration.</p> <p> CIV ENG 467 Advanced Env Chemistry CIV ENG 440 Env. Transport Processes CIV ENG 361 Evaluation of Disease CIV ENG 448-0 Biophysicochemical Proc. In Env. Syst. CIV ENG 468 Chemical Speciation in Aquatic Syst. CIV ENG 441-0 Methods in Microbial Complexity CIV ENG 446-0 Env. Analytical Chemistry CIV ENG 395 Env. Law and Policy CIV ENG 395 Industrial Ecology of Matls & Prod. CIV ENG 355-0 Eng. Aspects of Groundwater Flow CIV ENG 356-0 Trans. Processes in Porous Media IEMS 395-0 Sustainability Issues & Actions CIV ENG 516 Seminar in Env. Engr. and Sci. </p> |