

Environmental Hydrology and Hydraulic Engineering Degree Requirements for 1-year MS

To obtain an MS a student has to complete 36 credit hours. A minimum of 12 hours are required at the 5xx level courses of which 8 hours have to be in the major field. The student is also required to complete three core courses.

	Fall Semester (choose 16 hours)	Spring Semester (choose 16 hours)	Summer Semester (choose 4 hours)
Core Courses [Required^{a)}]	CEE 450: Surface Hydrology CEE 451: Env. Fluid Mech. CEE 457: Groundwater Hydrology CEE 434: Environmental Systems I CEE 595W: Seminar	CEE 595W: Seminar	
	Choose at least 1 5xx class	Choose at least 2 5xx classes	
Recommended Courses in the Major Field (Choose at least two 5xx courses)	CEE 551: Open Channel Hydraulics CEE 559: Sediment Transport CEE 552: River Basin Management	CEE 452: Hydraulic Analysis and Design CEE 453: Urban Hydrology and Hydraulics CEE 550: Hydroclimatology CEE 555: Mixing in Env. Flows CEE 557: Groundwater Modeling CEE 598 HHV: Hydrologic & Hydroclimatic Variability CEE 598 NLH: Non-Linear Methods in Hydrology CEE 598 RMD: River Morphodynamics CEE 598 SH: Stochastic Hydrology	CEE 498FM: Field Methods in Water Resources
Example Optional Courses	CEE 430: Ecol. Quality Eng. CEE 437: Water Quality Eng. CEE 442: Env. Eng. Principles (Physical) CEE 443: Env. Eng. Principles (Chemical) ATMOS 502: Numerical Fluid Dyn GEOG 406: Fluvial Geomorphology GEOG 477: Intro. To Remote Sensing LAW 616: Env. Law & Policy I	CEE 431: Biomonitoring CEE 432: Stream Ecology CEE 490: Computer Methods CEE 534: Surface Water Quality Modeling CEE 535: Env. Systems II GEOL 570: Hydrogeology MATH 487: Advanced Eng. Math. TAM 537: Experimental Methods in Fluid Mech. TAM 538: Turbulence	ABE 456: Land & Water Resour. Eng. GEOL 570 MATH 455: Num. Methods for PDEs MATH 468: Topics in Applied Stat.

^{a)}Students are required to take 3 out of CEE 450, CEE 451, CEE 457, and CEE 434. If these or equivalent courses were successfully completed prior to entering the M.S. program, other recommended or optional courses may be substituted, subject to approval by your adviser.

See <http://cee.illinois.edu/programs/Grad/professionalMS> for more details about professional MS program or contact Prof, Art Schmidt (aschmidt@illinois.edu)