

**Johns Hopkins Engineering
Environmental Engineering, Science, and Management Programs
(Tentative Course Schedule)**

5/4/2020

Environmental Engineering, Master of Environmental Engineering

Course Number	Course Title	Instructor(s)	Term Offered		
			FALL	SPRING	SUMMER
575.604	Principles of Environmental Engineering	Dr. Hedy Alavi Mr. Christopher Overcash Mr. Eung Kim	X	X	X
575.605	Principles of Water and Wastewater Treatment	Dr. Christian Davies-Venn Dr. Zohreh Movahed		X	
575.606	Water Supply and Wastewater Collection	Dr. Christian Davies-Venn	X		
575.607	Radioactive Waste Management	Dr. Ralph Lightner	X		
575.620	Solid Waste Engineering and Management	Dr. Hedy Alavi Mr. Christopher Overcash Mr. Eung Kim	X		
575.623	Industrial Processes and Pollution Prevention	Dr. Jill Engel-Cox	X		
575.703	Environmental Biotechnology	Dr. Mahnaz Mazaheri Assadi			X
575.706	Biological Processes for Water and Wastewater Treatment	Dr. W. Josh Weiss		X	
575.715	Subsurface Fate and Contaminant Transport	Dr. Khandaker Ashfaque Dr. Frank Barranco	X		
575.721	Air Quality Control Technologies	Dr. Michael Robert			X
575.741	Membrane Filtration Systems and Application in Water and Wastewater Treatment	Dr. Sepideh Jankhah		X	
575.742	Hazardous Waste Engineering and Management	Dr. Hedy Alavi Mr. Christopher Overcash Mr. Eung Kim		X	
575.745	Physical and Chemical Processes for Water and Wastewater Treatment	Dr. Harish Arora	X		
575.746	Water and Wastewater Treatment Plant Design	Dr. Christian Davies-Venn Dr. Harish Arora			X
575.761	Measurement and Pseudo-measurement in the Environmental Arena	Dr. Abel Wolman Dr. Gordon Grant	X		
575.801	Independent Project in Environmental Engineering, Science, and Management	Research Faculty - Dept. of Environmental Health & Engr.	X	X	X

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Environmental Engineering and Science, Master of Science

Course Number	Course Title	Instructor(s)	Term Offered		
			FALL	SPRING	SUMMER
575.601	Fluid Mechanics	Dr. Salman Haq		X	
575.615	Ecology	Dr. William Hilgartner	X		
575.619	Principles of Toxicology, Risk Assessment, and Management	Dr. Michael Dellarco	X		
575.626	Hydrogeology	Dr. Frank Barranco Dr. Khandaker Ashfaque		X	
575.629	Modeling Contaminant Migration Through Multimedia Systems	Dr. Khandaker Ashfaque Dr. Michael Robert Dr. Andrew Stoddard			X
575.643	Chemistry of Aqueous Systems	Dr. John Sivey			X
575.645	Environmental Microbiology	Dr. Amar Wadhawan		X	
575.704	Applied Statistical Analyses and Design of Experiments for Environmental Applications	Dr. Barry Bodt			X
575.708	Open Channel Hydraulics	Dr. Mahmood Naghash			X
575.713	Field Methods in Habitat Analysis and Wetland Delineation	Dr. William Hilgartner			X
575.716	Principles of Estuarine Environment: The Chesapeake Bay Science and Management	Mr. Chris Overcash Dr. Robert Summers	X		
575.717	Hydrology	Dr. Jeffrey Raffensperger	X		
575.720	Air Resources Management and Modeling	Dr. Michael Robert Ms. Susan Wierman		X	
575.727	Environmental Monitoring and Sampling	Dr. Michael Robert Dr. Andrew Stoddard	X		
575.728	Sediment Transport and River Mechanics	Dr. Allen Gellis	X		
575.730	Geomorphic and Ecologic Foundations of Stream Restoration	Dr. Daniel Baker Dr. Joel Sholtes		X	
575.743	Atmospheric Chemistry	Dr. Chris Jakober Dr. Michael Robert	X		
575.744	Environmental Chemistry	Dr. Shalini Jayasundera	X		
575.763	Nanotechnology and the Environment: Applications and Implications	Dr. Talia Abbott Chalew		X	
575.801	Independent Project in Environmental Engineering, Science, and Management	Research Faculty - Dept. of Environmental Health & Engr.	X	X	X

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Environmental Planning and Management, Master of Science

Course Number	Course Title	Instructor(s)	Term Offered		
			FALL	SPRING	SUMMER
575.608	Optimization Methods for Public Decision Making	Dr. Justin Williams			X
575.611	Economic Foundations for Public Decision Making	Dr. John Boland		X	
575.628	Business Law for Engineers	Dr. Arthur Reynolds	X		
575.635	Environmental Law for Engineers and Scientists	Mr. Timothy Henderson, Esq. Mr. Anthony Gorski, Esq.	X		
575.637	Environmental Impact Assessment	Dr. Craig Toussaint		X	
575.640	Geographic Information Systems (GIS) and Remote Sensing for Environmental Applications	Dr. William Roper		X	
575.658	Natural Disaster Risk Modeling	Dr. Gonzalo Pita	X		
575.707	Environmental Compliance Management	Dr. Kurt Riegel		X	
575.710	Financing Environmental Projects	Dr. Arthur Reynolds			X
575.711	Climate Change and Global Environmental Sustainability	Dr. Michael Robert		X	
575.714	Water Resources Management	Dr. Jim George Dr. Justin Williams			X
575.723	Sustainable Development and Next Generation Buildings	Dr. William Roper			X
575.731	Water Resources Planning	Dr. Bonnie Kranzer Boland	X		
575.733	Energy Planning and the Environment	Dr. Ralph Lightner			X
575.734	Smart Growth Strategies for Sustainable Urban Development and Revitalization	Dr. William Roper	X		
575.735	Energy Policy Planning and Modeling	Dr. Cynthia Bothwell		X	
575.736	Designing for Sustainability: Applying a Decision Framework	Dr. Deborah Kopsick	X		
575.737	Environmental Security with Applied Decision Analysis Tools	Dr. Justin Williams Dr. Abel Wolman		X	
575.738	Transportation Innovation and Curtailing Atmospheric Pollution and Climate	Dr. John Munro		X	
575.747	Environmental Project Management	Dr. Craig Toussaint	X		
575.750	Environmental Policy Needs in Developing Countries	Dr. Deborah Kopsick		X	
575.752	Environmental Justice and Ethics Incorporated into Decision-Making	Dr. Kelly Tzoumis			X
575.759	Environmental Policy Analysis	Dr. Deborah Kopsick	X		
575.753	Communication of Environmental Information and Stakeholder Engagement	Dr. Jill Engel-Cox			X
575.801	Independent Project in Environmental Engineering, Science, and Management	Research Faculty - Dept. of Environmental Health & Engr.	X	X	X