

# Civil and Environmental Engineering (CEE) / 2009 -2010 / Course Schedule

10/13/2009 / Obtain Permission Numbers from the Academic Coordinator, Janet Soule, [j-soule@northwestern.edu](mailto:j-soule@northwestern.edu). For most current schedule, always go to [www.civil.northwestern.edu](http://www.civil.northwestern.edu) / click Undergraduate Programs; click Course Schedule or click Graduate Programs / click Course Schedule.

COURSE NO.	TITLE	FALL	WINTER	SPRING
ENVR_SCI 201	Earth: A Habitable Planet DISCUSSION SECTION REQUIRED			1-1:50 MWF 12:30-1:50 Th Gaillard
ENVR_SCI 202	Health of the Biosphere DISCUSSION SECTION REQUIRED (J Walsh, Prog in Biological Sci)		12:30-1:50 T Th TBA Walsh	
ENVR_SCI 203	Energy and the Environment: The Automobile DISCUSSION SECTION REQUIRED	1-1:50 MWF Gray 12:30-1:50 T		
CIV_ENV 212-0	Mechanics No P/N	9-9:50 MTWF J Thomas		
CIV_ENV 216-0	Mechanics of Materials I LAB SECTION REQUIRED No P/N	11-11:50 MTWF Jennings <b>Enroll Cap 50</b>	11-11:50 MTWF Mitra Hartmann <b>Enroll Cap 50</b>	11-11:50 MTWF STAFF <b>Enroll Cap 50</b>
	LAB SECTION	1-2:50 T		
	LAB SECTION	3-4:50 Th		
	LAB SECTION	3-4:50 T		
	LAB SECTION		3-4:50 Th	
	LAB SECTION		9-10:50 Th	
	LAB SECTION		1-2:50 Th	
	LAB SECTION		11-12:50 Th	
	LAB SECTION			3-4:50 T
	LAB SECTION			3-4:50 Th
	LAB SECTION			9-10:50 Th
CIV_ENV 221-0	Theory of Structures I LAB SECTION REQUIRED No P/N	9-9:50 MWF 11-12:50 Th Huang		
CIV_ENV 222-0	Structural Steel Design DISC SECTION REQUIRED <b>OFFERED Spring, Even Years</b>			1-1:50 MWF 12:30-1:50 T Corr

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COURSE NO.	TITLE	FALL	WINTER	SPRING
<b>CIV_ENV</b> 250-0	Introductory Soil Mechanics <b>LAB SEC REQUIRED</b> <b>LAB SEC</b> <b>LAB SEC</b> <b>No P/N</b>	1-1:50 MWF Finno 12-2:50 Th 6-8:50 W		
<b>CIV_ENV</b> 260-0	Fund of Environmental Engineering <b>No P/N</b>			2-3:50 MW Packman
<b>CIV_ENV</b> 302-0	Engineering Law			3:30-5:20 T Th Krizek/Gattari
<b>CIV_ENV</b> 303-0	Environmental Law and Policy	4-6:50pm Th Harley		
<b>CIV_ENV</b> 304-0	Civil and Environmental Engrg Systems Analysis			11-12:20 T Th Durango-Cohen
<b>CIV_ENV</b> 306-0	Uncertainty Analysis In Civil Engrg <b>No P/N</b>	12-12:50 MTWF Clark		
<b>CIV_ENV</b> 307-0	Microstructure of Cement-based Materials <b>DISCUSSION SECTION REQUIRED</b> <b><u>OFFERED Spring, Even Years</u></b>			9:30-10:50 T Th Jennings 2 Fri Jennings
<b>EARTH</b> 314-0	Organic Geochemistry <b>Offered jointly with CIV_ENG 395, 20</b>		9:30-10:50 T Th Blair	
<b>CIV_ENV</b> 325-0	Reinforced Concrete		2-3:50 MW Corr	
<b>CIV_ENV</b> 327-0	Finite Elem Methods In Mechanics	2-3:20 T Th Andrade		

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COURSE NO.	TITLE	FALL	WINTER	SPRING
<b>CIV_ENV</b> 330-0	Construction Management <b>SECTION 01, JR/SR only—No P/N</b> <b>SECTION 02, MPM &amp; GRADS</b>	4-5:50 MW <b>BOTH SEC</b> R Tilghman D Robideau D Maguire		
<b>CIV_ENV</b> 332-0	Building Construction Estimating			4-5:50 MW MPM-Tilghman
<b>CIV_ENV</b> 336-0	Project Scheduling <a href="mailto:a-hadavi@northwestern.edu">Email a-hadavi@northwestern.edu</a> for permission number		6:30-9:20 W Hadavi+1hrLab TBA	
<b>CIV_ENV</b> 340-0	Fluid Mechanics II <b>No P/N</b>			9-9:50 MWF Clark
<b>CIV_ENV</b> 358-0	Airphoto Interpretation	2-3:50 MW Dowding		
<b>CIV_ENV</b> 361-0	Environmental Microbiology and Public Health		11:00 -12:20 T Th Marcelino	
<b>CIV_ENV</b> 363-0	Environmental Engrg Apps I: Air & Land	1-1:50 MWF Waller		
<b>CIV_ENV</b> 364-0	Environmental Engrg Apps II: Water		9-9:50 MTWF STAFF	
<b>CIV_ENV</b> 365-0	Environmental Laboratory		1-5:50 pm T Gaillard	
<b>CIV_ENV</b> 367-0	Aquatic Chemistry <b>No P/N</b> <b>DISCUSSION SECTION REQUIRED</b>	10-10:50 MWF Gaillard Th 11-12:30		

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COURSE NO.	TITLE	FALL	WINTER	SPRING
CIV_ENV 368-0	Sustainability: Issues and Actions: Near and Far			4-6:50pm Wed Gray
CIV_ENV 371-0	Intro Transportation Planning and Analysis-- <b>No P/N</b> <b>LAB SECTION REQUIRED</b> <b>No P/N</b>	2-3:50 MW Schofer 2-4 F		
CIV_ENV 376-0	Transp Systems Operations	8-9:50 MW Y. Nie		
CIV_ENV 382-0	CAPSTONE DESIGN <b>DISC SECTION REQUIRED</b> <b>CEE Seniors Only--No P/N</b>			12:30-1:50, T Th, Lecture 6-7:20 Th, Disc Dowding
CIV_ENV 395-0	UG – Experimental Courses – Selected Topics			
	** Section 22 – FALL Architectural Engrg & Design I: Fundamentals of Design (Jrs/Srs only)	4-6:50 T Th Booth		
	** Section 20 – WINTER Organic Geochemistry <b>Combined with EARTH 314</b>		9:30-10:50 T Th Blair	
	** Section 22 – WINTER Architectural Engrg & Design II: Intermediate (Engineering Jrs/Srs only)		4-5:50 T Th Booth	
	** Section 23 – WINTER Architectural Engrg & Design IV: Sustainability Building Systems (Engineering juniors/seniors)		4-5:50 M W STAFF	
	** Section 22 – SPRING Architectural Engrg & Design III: Advanced (Engineering Jrs/Srs only)			4-5:50 T Th Booth

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COURSE NO.	TITLE	FALL	WINTER	SPRING
<b>CIV_ENV</b> 398-1,2	Community-Based Design -1,2 <b>INSTRUCTOR CONSENT—</b> "K" grade in Winter Q (continuing). Letter grade after completion of Spring Q. Permission of Instructor & Permission No. from Academic Coordinator, <a href="mailto:j-soule@northwestern.edu">j-soule@northwestern.edu</a>		398-1, TBA Gray ABC/K	398-2, TBA Gray
<b>CIV_ENV</b> 399	Projects—Undergraduate-level <b>INDIVIDUAL INSTRUCTOR SECTIONS / Permission of Instructor &amp; Permission No. from Academic Coordinator, Janet Soule</b> <a href="mailto:j-soule@northwestern.edu">j-soule@northwestern.edu</a>			
<b>CIV_ENV</b> 413-0	Modern Experimental Mechanics (listed as as Experimental Stress Analysis)	2-3:20 T Th Daniel		
<b>CIV_ENV</b> 414-1	Mechanics of Composite Materials I		2-3:20 T Th Daniel	
<b>CIV_ENV</b> 414-2	Mechanics of Composite Materials II			2-3:20 T Th Daniel
<b>CIV_ENV</b> 415-0	Theory of Elasticity	2-3:50 M W Keer		
<b>CIV_ENV</b> 417-1	Mechanics of Continua I	10-10:50 MWF Huang		
<b>PROJ MGMT</b> 421-0	Principles of Project Management (.50 credit)	6:30-8:20 T Krizek/Kaplanoglu		
<b>PROJ MGMT</b> 423-0	Business Development in the Built Environment (1 credit)	9-12:20 Sat Krizek/Benish		

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<b>CIV_ENV</b> 424-0	Stability of Structures	MWF 4-5:50 Bazant		
<b>CIV_ENV</b> 430-0	Cohesive Fracture and Scaling		MWF 4-5:50 Bazant	
<b>PROJ MGMT</b> 429-0	Program Management (.50 credit)			4-5:50 T Hadavi/Crowell
<b>PROJ MGMT</b> 431-0	Construction Business Strategy (.50 credit) P/N only grading			6:30-8:20 T Krizek/Tilghman
<b>PROJ_MGT</b> 433-0	International Construction (.50 credit)		4-5:50pm Th Krizek	
<b>CIV_ENV</b> 435-0	Cost Engineering and Control			6:30-9:20 W Hadavi
<b>CIV_ENV</b> 436-0	Constr Contracts/Dispute Resolution		6:30-9:20 M MPM-Eichorn/Hadavi	
<b>CIV_ENV</b> 440-0	Environ Transport Processes	9:30-10:50 T Th TBA Lab Packman		
<b>PROJ_MGT</b> 441-0	Sustainability in Construction (.50 credit)		4-5:50 T Hadavi	
<b>CIV_ENV</b> 442-0	Proc in Environmental Biotechnology			9:30-10:50 T Th STAFF

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CIV_ENV 444-0	Physical/Chemical Processes In Environmental Control		MW 2-3:50 Clark	
CIV_ENV 447-0	Biogeochemistry <b>Offered jointly with EARTH 317</b>			T Th 3:30-4:50pm Blair
CIV_ENV 448-0	Biophysicochemical Processes in Environmental Systems			MW 2-3:50 STAFF
CIV_ENV 450-2	Soil Mechanics II	MW 8-9:50 Finno		
CIV_ENV 450-3	Soil Mechanics III		MW 8-9:50 Finno	
PROJ_MGT 451-0	Information Technology for Construction (.50 credit)	6:30-8:20 Th Krizek/Burger		
CIV_ENV 453-0	Rock Mechanics <b>Time change Per CHD 12/07</b>		10-11:50 MW Dowding	
PROJ_MGT 455-0	Computer-Integrated Project Delivery (.50 credit)			6:30-8:20 Th Krizek/Fallon
CIV_ENV 471-1	Transp Systems Analysis		8-9:50 MW Nie	
CIV_ENV 471-2	Transp Systems Analysis			2-3:50 MW Nie

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<b>CIV_ENV</b> 479-0	Transp Systems Planning and Management (jointly w/CE371) <b>LAB SECTION REQUIRED</b>	2-3:50 MW Schofer 2-4 F		
<b>CIV_ENV</b> 480-1	Travel Demand Analysis and Forecasting I		2-3:50 WF STAFF	
<b>CIV_ENV</b> 482-0	Evaluation and Decision-making for Infrastructure Systems <b>DISCUSSION SECTION REQUIRED</b>			2-3:20 T Th Schofer 2-4 F
<b>CIV_ENV</b> 483-0	Infrastructure Systems Analysis <b>DISCUSSION SECTION REQUIRED</b>		9:30-10:50 T Th Disc Friday 10-10:50 Durango-Cohen	
<b>CIV_ENV</b> 495-0	Grad – Experimental Courses Selected Topics			
	**Sec 20 – WINTER Computational Inelasticity		3:30-4:50 pm T Th Andrade	
	**Sec 21 – WINTER Transportation Operations and Control: Scheduled Modes		4-5:50 pm MW Mahmassani	
	**Sec 21 – SPRING Underground Construction			2-3:50 MW Dowding
	**Sec 22 – SPRING Fracture Mechanics			2-3:50 MW Huang
<b>CIV_ENV</b> 497-0	Special Topics – in Civil Engineering (.50 credit)			
	**Sec 20 -- FALL	TBA Krizek		
	**Sec 20 -- WINTER		TBA Krizek	
	**Sec 21 -- WINTER Heavy Construction Estimating		4-5:50 M Hadavi/Kenny	
	**Sec 23 -- WINTER E-Business in Construction		6:30-8:20 Th Hadavi	

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	**Sec 20 -- SPRING			TBA Krizek
<b>CIV_ENV</b> 499	Projects – Graduate level <b>INDIVIDUAL INSTRUCTOR SECTIONS / Permission of Instructor &amp; Permission No. from Academic Coordinator, Janet Soule</b> <a href="mailto:j-soule@northwestern.edu">j-soule@northwestern.edu</a>			
<b>PROJ_MGT</b> 502-0	Communications Seminar <b>Also offered in Sum Qtr</b>	TBA Krizek	TBA Krizek	TBA Krizek
<b>CIV_ENV</b> 503-0	Materials and Methods In Construction Seminar		4-5:50 W Krizek	
<b>CIV_ENV</b> 512-1,2,3	Structural Engineering and Mechanics Seminar	11-12:20 Th Bazant	11-12:20 Th Bazant	11-12:20 Th Bazant
<b>CIV_ENV</b> 515-1,2	Geotechnics Seminar Brown bag in Tech A230		12-12:50 W Dowding	12-12:50 W Finno
<b>CIV_ENV</b> 516-1,2,3	Sem in Environmental Engrg and Science Tech A230	2-3:20 F Gray	2-3:20 F Gaillard	2-3:20 F Packman
<b>CIV_ENV</b> 517-1,2,3	Transportation Seminar	TBA Durango-Cohen	TBA Durango-Cohen	TBA Durango-Cohen
<b>CIV_ENV</b> 533-1,2,3	Project Management Seminar / Tech A230	3-3:50 M Krizek Hadavi	3-3:50 M Krizek Hadavi	3-3:50 M Krizek Hadavi
<b>CIV_ENV</b> 590	MS/PhD Research Units <b>INDIVIDUAL INSTRUCTOR SECTIONS /</b> <b>Permission of Instructor &amp; Permission No. from Academic Coordinator, Janet Soule</b> <a href="mailto:j-soule@northwestern.edu">j-soule@northwestern.edu</a>			

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GEN_ENG 220-1, 2 = <b>Max enroll 30 = Tech MG47</b>	Analytic and Computer Graphics AutoCAD		Wed 6:30-9pm + 1.5 hr Lab/ Tutorial TBA <b>W. Bielski</b>	Wed 6:30-9pm + 1.5 hr Lab/ Tutorial TBA <b>W. Bielski</b>
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- **Student must have permission number** from Janet Soule, Academic Coordinator ([j-soule@northwestern.edu](mailto:j-soule@northwestern.edu))
- This course, Analytic and Computer Graphics / AutoCAD, is a 2-Qrtr course (.50 credit each quarter).
- Winter Quarter results in a "K" (continuing) grade; Spring results in conversion of Winter's "K" to a Pass/No Pass and a Spring Grade of Pass/No Pass.
- Final Grade will be on a mandatory P/N only basis at the end of the 2-quarter period. For questions, email Prof Charles Dowding ([c-dowding@northwestern.edu](mailto:c-dowding@northwestern.edu)).