

CIV_ENV class schedule for the 2016-2017 Academic Year

Permission numbers are to be obtained from Academic Coordinator

Course Number	Course Title	Fall 2016	Winter 2017	Spring 2017
CIV_ENV 195-0	Undergraduate – Experimental Courses / Selected Topics **Sec 20—FALL Introduction to Civil and Environmental Engineering (0 units)	5-5:50 W Corr		
CIV_ENV 203-0	Energy and the Environment Discussion section required —(offered jointly with ENVR_SCI 203-0)	2-3:20 TTh 9:30-11:00 Th Blair		
CIV_ENV 216-0	Mechanics of Materials I Lab section required No P/N	11-11:50 MTWF Alarcon 216 (enroll cap 50) Joint offering in Fall, Wtr, & Spg with BMD_ENG 271 (enroll cap 50) = 100	11-11:50 MTWF Rudnicki 216 (enroll cap 50) Joint offering in Fall, Wtr, & Spg with BMD_ENG 271 (enroll cap 50) = 100	11-11:50 MTWF Alarcon 216 enroll cap 50, Joint offering in Fall, Wtr, & Spg with BMD_ENG 271 (enroll cap 25) = 50
	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			11-12:50 Th
	Lab Section			1 – 2:50 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 9:30-10:50 Th Chou		
CIV_ENV 250-0	Introductory Soil Mechanics Lab section required No P/N	10-10:50 MWF 6-8:50 W Buscarnera		

<u>CIV_ENV</u> <u>260-0</u>	Fund of Environmental Engrg Lab section required No P/N			9-9:50 MWF Packman Sec 60 lab 2-3:50 M Sec 61 lab 4:00-5:50 M
<u>CIV_ENV</u> <u>295</u>	**Section 20 – Spring Structural Art Need Permission number Maximum 40, Over 30, send students over to professor Corr, to get his consent first.			9:30-10:50 TTh Corr
<u>CIV_ENV</u> <u>301-1</u>	Professional Devel Seminar (CEE Seniors only).		4:30-5:20M Chou	
<u>CIV_ENV</u> <u>301-2</u>	Professional Devel Seminar (CEE Seniors only).		3:00-3:50 M Corr	
<u>CIV_ENV</u> <u>302-0</u>	Engineering Law			3:30-5:20 TTh Krizek/Rockman/Croke
<u>CIV_ENV</u> <u>303-0</u>	Environmental Law and Policy -- by permission number (offered jointly with ENVR_POL 390)	5:00-7:50 Th Harley		
<u>CIV_ENV</u> <u>304-0</u>	Civil and Environmental Engrg Systems Analysis			9:30-10:50 TTh Durango-Cohen
<u>CIV_ENV</u> <u>306-0</u>	Uncertainty Analysis In Civil Engrg No P/N	12-12:50 MWF Clark		
<u>CIV_ENV</u> <u>314-0</u>	Organic Geochemistry (offered jointly with EARTH 314)		9:30-10:50 TTh Blair	
<u>CIV_ENV</u> <u>319-0</u>	Theory of Structures II Discussion Section required		12-1:50 MW 12:30-1:50 T Chou	
<u>CIV_ENV</u> <u>320-0</u>	Structural Analysis- Dynamics Computer Lab Section required	1-1:50 MWF 9:30-10:50 Tu Corr		
<u>CIV_ENV</u> <u>321-0</u>	Properties of Concrete		4-6 MW D'Ambrosia (Winter or Spring)	
<u>CIV_ENV</u> <u>323-0</u>	Structural Steel Design Lab Section required			2:00-3:50 TTh Chou

<u>CIV_ENV</u> <u>325-0</u>	Reinforced Concrete Discussion Section required		9-9:50 MWF 2-3:20 Tues Corr	
<u>CIV_ENV</u> <u>327-0</u> (need 100)	Finite Element Methods in Mechanics (offered jointly with MECH_ENG 327)	12:30-1:50 TTh Liu		
<u>CIV_ENV</u> <u>330-0</u>	Construction Management Jr/Sr only-NO P/N	4-5:50 MWF Tilghman/Krizek		
<u>CIV_ENV</u> <u>332-0</u>	Building Construction Estimating Prereq: CIV_ENV 503 in Winter Quarter, or permission of Prof Krizek (rjkrizek@northwestern.edu)			4-5:50 MW Krizek/Tilghman/ Higgins
<u>CIV_ENV</u> <u>336-0</u>	Project Scheduling Permission number from ahadavi@northwestern.edu		6:30-9:20 W Lab: M 5:00-6:00. T 3:00-4:00, 4:00- 5:00, 5-5:50 W 9:30-10:30 Hadavi	
<u>CIV_ENV</u> <u>340-0</u>	Fluid Mechanics II Lab section required No P/N			10-10:50 MWF Clark Sec 60 lab 2-3:50 M (2 nd 5 wks) Sec 61 lab 4:00-5:50 M (1 st 5 wks)
<u>CIV_ENV</u> <u>352</u>	Foundation Engineering		5-8:50 M Holman	
<u>CIV_ENV</u> <u>361-1</u>	Environmental Microbiology	2-3:50 MW Marcelino		
<u>CIV_ENV</u> <u>361-2</u>	Public and Environmental Health		11-12:20 TTh Marcelino	
<u>CIV_ENV</u> <u>363-0</u>	Environmental Engrg Apps I: Air & Land (needs M120)	1-1:50 MWF Rao		
<u>CIV_ENV</u> <u>364-0</u>	Environmental Engrg Apps II: Water Discussion section req No P/N		9-9:50 MWF 1-1:50 Th Disc Wells	
<u>CIV_ENV</u> <u>365-0</u>	Environmental Lab Sec 20— Undergraduates Sec 21—Graduates		Sec 20 1-5:50 T Wang Sec 21 1-5:50 Th Gaillard	

<u>CIV_ENV</u> <u>367-0</u>	Aquatic Chemistry Discussion sec required No P/N	10-10:50 MWF 12:30-1:50 Th Gaillard		
<u>CIV_ENV</u> <u>368-0</u>	Sustainability: Issues and Actions, Near and Far	3:30-6:20 T Gray		
<u>CIV_ENV</u> <u>370-0</u>	Environmental Organic Chemistry			9:30-10:50 TTh Wang
<u>CIV_ENV</u> <u>371-0</u>	Intro Transportation Planning and Analysis Discussion section required No P/N	2-3:50 MW 2-4 F Schofer		
<u>CIV_ENV</u> <u>376-0</u>	Transp Systems Operations	8-9:50 MW Nie		
<u>CIV_ENV</u> <u>382-0</u>	Capstone Design Discussion section required CivEnv Seniors only			12:30-1:50 TTh 6-7:20 Th Disc Dowding/Corr/Rao
<u>CIV_ENV</u> <u>385-1</u>	Architectural Engrg & Design I: Fundamentals (Engineering Jrs/Srs only) (meets in TECH L441) Max enroll 15 with permission number	4-5:50 TTh Cyphers/Booth		
<u>CIV_ENV</u> <u>385-2</u>	Architectural Engrg & Design II: Intermediate (Engineering Jrs/Srs only; AED I or permission of instructor) (meets in TECH L441) Max enroll 15 with permission number		4-5:50 TTh Cyphers/Booth	
<u>CIV_ENV</u> <u>385-3</u>	Architectural Engrg & Design III: Advanced (Engineering Jrs/Srs only; AED II or permission of instructor) (meets in TECH L441) Max enroll 15 with permission number			4-5:50 TTh Cyphers/Booth
<u>CIV_ENV</u> <u>395-0</u>	UGrad – Experimental Courses Selected Topics			
	** <u>Section 23</u> – SPRING Environmental Justice: Environmental Protection and Social Equity / permission no. / (offered			3:30-6:20 W Harley

	jointly with ENVR_POL 390)			
	** <u>Section 24</u> – SPRING Computational Forensics (offered jointly with MECH_ENG 395, 24)			3:30-4:50 TTh Fleming
	** <u>Section 25</u> – SPRING Water in Israel and the Middle East			2-5 Th Packman
	** <u>Section 26</u> – FALL High Performance Architectural Design	5-7 TTh Staff		
<u>CIV_ENV 398-1,2</u>	Community-based Design 1, 2 Must have permission of instructor and permission number. "K" grade in Winter Q (continuing). Spring results in conversion of Winter's "K" to a Letter Grade and Spring Letter Grade.		3:30-5:30 F Gray	5-7:00 T Gray
<u>CIV_ENV 399-0</u>	Projects—Undergraduate-level INDIVIDUAL INSTRUCTOR SECTIONS / Permission of instructor & permission number Must complete an application; Projects are for Letter Grades only.			
<u>CIV_ENV 410</u>	Plates and Shells		9:30-10:50 TTh Cusatis	
<u>CIV_ENV 414-1</u>	Mechanics of Composite Materials I	2-3:20 TTh Daniel		
<u>CIV_ENV 414-2</u>	Mechanics of Composite Materials II			2-3:20 TTh Daniel
<u>CIV_ENV 415-0</u>	Theory of Elasticity		8-9:20 TTh Cusatis	
<u>CIV_ENV 417-1</u> needs 75	Mechanics of Continua I	10-10:50 MWF Rudnicki		

<u>CIV_ENV</u> <u>421-0</u>	Prestressed Concrete Design			8-9:20 TTh Cusatis
<u>CIV_ENV</u> <u>424</u>	Stability of Structures		2-4 MWF Bazant	
<u>CIV_ENV</u> <u>426-1</u>	Advanced Finite Element Methods 1 (offered jointly with MECH_ENG 426-1)		3:30-4:50 TTh Fleming	
<u>CIV_ENV</u> <u>426-2</u>	Advanced Finite Element Methods 2 (offered jointly with MECH_ENG 426-2)			9:30-10:50 TTh Liu
<u>CIV_ENV</u> <u>430-0</u>	Cohesive Fracture and Scaling			1-2:50 MWF Bazant
<u>CIV_ENV</u> <u>435-0</u>	Cost Engineering and Control			6:30-9:20 M Hadavi
<u>CIV_ENV</u> <u>436-0</u>	Constr Contracts/Dispute Resolution		6:30-9:20 M Krizek/Eichorn	
<u>CIV_ENV</u> <u>440-0</u>	Environ Transport Processes		9:30-10:50 TTh 12:30-1:50 T Lab Packman	
<u>CIV_ENV</u> <u>441</u>	Chemical Microbial Interactions		4-5:50 MW Wang	
<u>CIV_ENV</u> <u>442-0</u>	Processes in Environmental Biotechnology			1:30-3:20 MW Wells
<u>CIV_ENV</u> <u>443</u>	Microbial Ecology		TF 4:00-5:20 Wells	
<u>CIV_ENV</u> <u>444-0</u>	Physical/Chemical Processes In Environmental Control		2-3:50 MW Clark	
<u>CIV_ENV</u> <u>448-0</u>	Biophysicochemical Processes in Environmental Systems			10-10:50 MWF Gaillard
<u>CIV_ENV</u> <u>450-1</u>	Soil Mechanics 1	8-9:50 MW Finno		
<u>CIV_ENV</u> <u>450-3</u>	Soil Mechanics 3			8-9:50 MW Finno
<u>CIV_ENV</u> <u>451</u>	Engineering Properties of Soils	1-2:50 MW Finno		
<u>CIV_ENV</u> <u>452-0</u>	Unsaturated Soil Mechanics		9:00-10:50 TTh Buscarnera	
<u>CIV_ENV</u> <u>453</u>	Rock Mechanics	10-11:50 MW Dowding		

<u>CIV_ENV</u> <u>454</u>	Constitutive Models for Soils		12-1:50 TTh Buscarnera	
<u>CIV_ENV</u> <u>471-1</u>	Transp Systems Analysis I		8-9:50 MW Nie	
<u>CIV_ENV</u> <u>471-2</u>	Transp Systems Analysis II			2-3:50 MW Nie
<u>CIV_ENV</u> <u>472-2</u>	Transportation Systems Operations & Control II: Scheduled Modes and Real-time Systems		4-5:50 MW Mahmassani	
<u>CIV_ENV</u> <u>473</u>	Survey Methods, data and analysis			10-11:50 MW Stathopoulos
<u>CIV_ENV</u> <u>479-0</u>	Transp Systems Planning and Management Discussion section required	2-3:50 MW 2-4 F Schofer		
<u>CIV_ENV</u> <u>480-1</u>	Travel Demand Analysis and Forecasting 1		2-3:50 MW Stathopoulos	
<u>CIV_ENV</u> <u>482-0</u>	Evaluation and Decision-making for Infrastructure Sys Discussion section required			2-3:50 TTh 2- 3:50 F Schofer
<u>CIV_ENV</u> <u>483</u>	InfrastrSysAnaly		9:30-10:50 TTh DIS 10-10:50 F Durango Cohen	
<u>CIV_ENV</u> <u>495-0</u>	Grad – Experimental Courses Selected Topics			
	** <u>Sec 20</u> —FALL Advanced Design of Steel Structures Prerequisite: CIV_ENV 323	6:30-8:30 TTh Leigh Arber/Max Puchtel		
	** <u>Sec 25</u> – Spring Structures Capstone for SEIM MS students			M 6:00-7:50 Garo and Chou
	** <u>Sec 26</u> —SPRING Structural Systems and Optimization			6-7:50 TTh Beghini
	** <u>Sec 27</u> —SPRING Advanced Design of Reinforced Concrete Structures			4:00-5:50 MW Larry Novak

	**Sec 28—SPRING Dynamic Deformation of Materials			3:30-4:50 TTh Balogun
	**Sec 31—SPRING Advances in Travel Demand Analysis			4-5:50 MW Mahmassani
	**Sec 32 – Spring Data Analytics for Transportation			9-12 Th Chen
	**Sec 34- SPRING Load Resistance Factor Design			5:30-8:20 M Paul Sabatini
	**Sec 35 – SPRING Plasticity & Limit Analysis			12:00-1:50 TTh Hambleton
	**Sec 36 – SPRING Molecular Microbiology			1:00-2:20 TTh Hartmann
<u>CIV_ENV</u> 497	**Sec 20--FALL (.50 unit) Special Topic	TBA Krizek	TBA Krizek	TBA Krizek
<u>CIV_ENV</u> 499-0	Projects – Graduate level INDIVIDUAL INSTRUCTOR SECTIONS / Permission of instructor & permission number Must complete an application; Letter Grades only.			
<u>CIV_ENV</u> 503-0	Materials and Methods In Construction Seminar -- This is the Prereq if you are planning to take CIV_ENV 332 in Spring Quarter, or permission of Prof Krizek		3-5:50 W Krizek/Benhart	
<u>CIV_ENV</u> 504-0	SEIM Capstone Pre- design Seminar (S/US grade) This is the Prereq if you are planning to take “Structures Capstone for SEIM MS students” in the Spring		6-8 W Chou and Garo	

<u>CIV ENV</u> <u>512-1,2,3</u>	Structural Engineering and Mechanics Seminar	12-12:50 W Cusatis	10-10:50 W Cusatis	11:00-11:50 W Cusatis
<u>CIV ENV</u> <u>515-1,2</u>	Geotechnics Seminar		12-12:50 W Dowding	12-12:50 W Finno
<u>CIV ENV</u> <u>516-1,2,3</u>	Environmental Engrg and Science Seminar	2-3:30 F Wells	2-2:50 F Gaillard	2-2:50 F Gaillard
<u>CIV ENV</u> <u>517-1,2,3</u>	Transportation Seminar	3:30-5 Th Stathopoulos		3:30-5 Th Stathopoulos
<u>CIV ENV</u> <u>533-1,2,3</u>	Project Management Seminar	3-3:50 M Krizek/Hadavi	3-3:50 M Krizek/Hadavi	3-3:50 M Krizek/Hadavi
<u>CIV ENG</u> <u>590-0</u>	Research Units (PhD) INDIVIDUAL INSTRUCTOR SECTIONS / Permission of instructor & permission number			
<u>GEN EN</u> <u>G 220-1, 2</u>	Analytic and Computer Graphics AutoCAD 1. Must have permission number. 2. Winter Q has a “K” (continuing) grade; Spring converts Winter’s “K” to a Pass/No Pass and a Spring Grade of Pass/No Pass. 3. 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 at (c-dowding@northwestern.edu).		6:30-8:50 W +1.5hr Lab/Tutorial Conway	6:30-8:50 W +1.5hr Lab/Tutorial Olson

Last Updated on 10/3/17