

Table 7

**Courses Offered to Graduate Students in the Past Three Years
Civil & Environmental Engineering, Carleton University**

Course	Title	2004-05	2005-06	2006-07	Instructor ⁽¹⁾	Sessions
CIVE2200	Mechanics of Solids I	1G/103U			Osman B. Isgor	04
CIVE2700	Civil Engineering Materials		1G/68U		George Hadjisophocleous	05
CIVE3202	Mechanics of Solids II	1G/49U			Abhijit Sarkar	04
CIVE3203	Structural Analysis I		1G/76U		Gilbert Hartley	05
CIVE4202	Wood Engineering			1G/38U	Hugo Lemieux	06
CIVE5101	Introductory Elasticity	11G(8)/0U		13G(12)/0U	Heng-Aik Khoo	04,06
CIVE5103	Finite Element Analysis I	4G/1U		4G/0U	Gilbert Hartley	04,06
CIVE5104	Earthquake Engineering	3G/0U	5G/0U	5G/0U	David T. Lau	04,05,06
CIVE5106	Dynamics of Structures	9G/2U	8G/0U	11G/0U	Jagmohan Humar	04,05,06
CIVE5204	Advanced Steel Structures		6G/0U		Heng-Aik Khoo	05
CIVE5206	Prestressed Concrete	4G/3U			A G. Razaqpur	04
CIVE5208	Advanced Reinforced Concrete	8G/1U		6G/0U	A G. Razaqpur	04
					Osman B. Isgor	06
CIVE5300	Advanced Soil Mechanics		4G/0U	5G(4)/0U	K T. Law	05
					K. T. Law	06
CIVE5303	Pavements and Materials	13G/2U	3G/0U		Abd El Halim O. Abd El Halim	04,05
CIVE5305	Traffic Engineering	6G(5)/1U	8G(6)/3U		Ata M. Khan	05
					David W. Bell	04
CIVE5307	Urban Transportation	12G/0U			Ata M. Khan	04
CIVE5308	Geometric Design	5G/0U	4G/1U	7G/0U	Yasser Hassan	04,05,06
CIVE5403	Airport Planning		3G/0U	9G(8)/0U	Not Available	05
					David W. Bell	06
CIVE5505	Geotechnical Earthquake Eng.	2G/0U	7G/2U	5G(4)/0U	Siva Sivathayalan	04,05,06
CIVE5602	Advanced Computer-Aided Design	4G/2U	3G/2U		Neal Holtz	04,05
CIVE5609	Fundamentals of Fire Safety		9G/2U		George Hadjisophocleous	05
CIVE5610	Fire Dynamics I	5G/1U	7G/1U	3G/2U	Not Available	06
					Jim R. Mehaffey	04,05
CIVE5611	People in Fires	8G/0U	8G/0U	7G(6)/0U	Guylene Proulx	04,05,06
CIVE5612	Fire Modelling	13G/2U		6G/1U	George Hadjisophocleous	04,06
CIVE5613	Fire Dynamics II	12G/2U		9G/0U	Jim R. Mehaffey	04,06
CIVE5614	Design for Fire Resistance	5G/3U	6G/2U	3G/1U	Noureddine Benichou	04,05,06
CIVE5705	Uncertain Systems I	6G/0U			Abhijit Sarkar	04
CIVE5706	Infrastructure Assets Mgmt		9G(7)/1U	10G/1U	Guy Y. Felio	05,06
CIVE5707	Topics in Structures		4G/0U		Not Available	05
CIVE5708	FiniteElements inFieldProblems		11G/1U	1G/0U	Not Available	06
					Osman B. Isgor	05
CIVE5709	Inverse Modelling			4G/0U	Abhijit Sarkar	06
CIVE5805	Adv Pavement Engg & Mgmt			4G/2U	Abd El Halim O. Abd El Halim	06s
CIVE5806	Bituminous Materials			4G/2U	Not Available	06s
CIVE5809	Intro to Infrastructure Mgmt	16G(13)/0U	3G/3U	5G/0U	David W. Bell	04s
					Linda A. Newton	04,05,06
CIVE5900	Civil Engineering Project	41G/0U	27G/0U	15G/0U	Not Available	04,04s
					Siva Sivathayalan	05,05s,06,06s
CIVE5906	Directed Studies	15G/0U	6G/0U	8G/0U	Not Available	04,04s
					Siva Sivathayalan	05,06,06s
CIVE5907	Directed Studies	11G/0U	5G/0U	1G/0U	Not Available	04,04s
					Siva Sivathayalan	05,05s,06

Source: Course Master Records - 2004 to 2006; Teaching Evaluation Records - 2004 to 2006

Notes: 1. 'Not Available' appears when an instructor name is not in the Teaching Evaluation Database.

2. Numbers in '()' are the graduate student enrolments in the reported program, when less than the total graduate enrolment.

3. Excludes students officially withdrawn.

Table 7

**Courses Offered to Graduate Students in the Past Three Years
Civil & Environmental Engineering, Carleton University**

Course	Title	2004-05	2005-06	2006-07	Instructor ⁽¹⁾	Sessions
CIVE5909	M.A.Sc. Thesis	76G(75)/0U	74G/0U	48G/0U	Not Available Siva Sivathayalan	04,04s 05,05s,06,06s
CIVE6909	Ph.D. Thesis	80G/0U	79G/0U	80G/0U	Not Available Siva Sivathayalan	04,04s,06 05,05s,06,06s
CIVJ5003	Dam Engineering	3G/0U			Not Available	04
CIVJ5006	Site Improvements			4G/0U	Vinod Garga	06
CIVJ5202	Adv. Structural Steel Design	4G/0U			Not Available	04
CIVJ5206	Adv Concrete Technology		3G/0U		James J. Beaudoin	05
CIVJ5306	Earthquake Engineering	8G/0U			Not Available	04
CIVJ5309	Long Span Structures			6G(5)/0U	Hiroshi Tanaka	06
CIVJ6001	Adv River Hydraulics	3G/0U	5G/0U		Not Available Baolin Wang	04 05
CIVJ6002	Structural Stability	9G/0U	1G/0U		Not Available Magdi E. Mohareb	04 05
CIVJ6003	Coupled Proc.in Porous Media	3G/0U	7G/0U		Not Available Beatriz Martin-Perez	04 05
CIVJ6005	Mechanics of Unsaturated Soils		2G/0U	3G/0U	Sai Vanapalli	05,06
CIVJ6006	DurabilityConcreteStructures			9G/0U	Beatriz Martin-Perez	06
CIVJ6008	Foundation Design&Analysis			4G/0U	Sai Vanapalli	06
CIVJ6009	Design Struct. Blast Loads			3G/0U	Nove Naumoski	06
CIVJ6013	Reinforced Concrete Structures			2G/0U	Dan Palermo	06
CIVJ6014	Bridge Design for Dyn Loads		4G/0U		Nove Naumoski	05
CIVJ6019	Mech&DesnStructures-Composites	1G/0U		1G/0U	Not Available Husham Almansour	04 06
ENVE5101	Air Pollution Control			11G(2)/1U	Deniz Karman	06
ENVE5102	Traffic-Related Air Pollution	8G(1)/1U		8G(2)/0U	Deniz Karman	04,06
ENVE5303	Multiphase Flow in Soils		6G(2)/0U		Paul J. Van Geel	05
ENVE5402	Finite Elements in Field Prob	7G(5)/0U	3G(1)/0U		Osman B. Isgor	04,05
ENVE5702	Env Geotechnique: surface proc		5G(3)/0U	10G(1)/0U	Paul H. Simms	05,06
ENVE5703	Special Topic in Enviro Engg.			15G(2)/0U	Banu Ormeci	06
ENVE5906	Directed Studies 1			1G/0U	Siva Sivathayalan	06s
ENVJ5502	Membrane Appli in Envir Eng.			4G(1)/0U	Andre Tremblay	06
ENVJ5901	Unit Operations of Water Treat			8G(2)/2U	Onita Basu	06

Source: Course Master Records - 2004 to 2006; Teaching Evaluation Records - 2004 to 2006

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2. Numbers in '()' are the graduate student enrolments in the reported program, when less than the total graduate enrolment.

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