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**CIVIL ENGINEERING**  
**COURSE EQUIVALENTS**  
1998 Edition

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<b>98-CIV-A1</b> CIV E 372	<b>Elementary Structural Analysis</b> Structural Analysis I	ENCI 547 Theory of Structures II
<b>98-CIV-A2</b> CIV E 374 & CIV E 474	<b>Elementary Structural Design</b> Structural Design I Structural Design II	ENCI 451 Basic Structural Design
<b>98-CIV-A3</b> ENV E 302  & ENV E 322	<b>Environmental Engineering</b> Environmental Impact Assessment  Environmental Protection	ENCI 481 Introduction to Environmental Engineering  & ENCI 581 Water and Wastewater Treatment Processes
<b>98-CIV-A4</b> CIV E 381 & CIV E 391	<b>Geotechnical Materials and Analysis</b> Soil Mechanics  Civil Engineering Materials	ENCI 423 Soil Mechanics
<b>98-CIV-A5</b> CIV E 331	<b>Hydraulic Engineering</b> Hydraulics	ENME 341 Fundamentals of Fluid Mechanics  & ENCI 535 Open Channel Hydraulics
<b>98-CIV-A6</b>  CIV E 312	<b>Transportation Planning and Engineering</b>  Transportation Engineering	ENCI 473 Transportation Planning
<b>98-CIV-B1</b>	<b>Advanced Structural Analysis</b>  No Course Equivalent	ENCI 545 Theory of Structures I

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<b>98-CIV-B2</b> CIV E 574	<b>Advanced Structural Design</b> Structural Design III	ENCI 557 Structural Steel Design & ENCI 555 Structural Concrete Design
<b>98-CIV-B3</b> CIV E 481	<b>Geotechnical Design</b> Soil Engineering	ENCI 523 Soil Mechanics and Foundation Engineering
<b>98-CIV-B4</b> CIV E 433	<b>Engineering Hydrology</b> Hydrology	ENCI 533 Engineering Hydrology
<b>98-CIV-B5</b> CIV E 421 & CIV E 521	<b>Water Supply &amp; Waste Water Treatment</b> Processes for Public Health & Environmental Protection  Environmental Engineering Design	ENCI 473 Transportation Planning & ENCI 481 Introduction to Environmental Engineering & ENCI 589 Modelling of Environmental Systems
<b>98-CIV-B6</b>	<b>Urban and Regional Planning</b>  No Course Equivalent	  No Course Equivalent
<b>98-CIV-B7</b>	<b>Highway Design, Construction and Maintenance</b> No Course Equivalent	ENCI 579 Asphalt Pavement Design and Management
<b>98-CIV-B8</b> CIV E 506	<b>Management of Construction</b> Construction Estimating, Cost Control, Planning & Scheduling	ENCI 465 Engineering & Construction Management  <b>OR</b> ENCI 691 Fundamentals of Project Management
<b>98-CIV-B9</b>	<b>Civil Engineering Analysis and the Finite Element Method</b> No Course Equivalent	ENCL 651 Finite Element Modelling <b>OR</b> ENCL 653 Theory & Application of the Finite Element Method

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