

Bachelor Engineering (Hons) / Computer Science 3785 - Civil Engineering - CVENAH - T1 2026 Start

Program: Engineering (Hons) / Comp Sci [3785]

Year 1 Term 1

Course or Activity	Prerequisites	Credits
DESN1000 Introduction to Engineering Design and Innovation		6
<i>MATH1131 or MATH1141</i>		6
<i>PHYS1121 or PHYS1131</i>		6

Year 1 Term 2

Course or Activity	Prerequisites	Credits
CVEN2101 Engineering Construction		6
ENGG1300 Engineering Mechanics		6
<i>MATH1231 or MATH1241</i>		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
COMP1511 Programming Fundamentals		6
MATS1101 Engineering Materials and Chemistry		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
COMP2521 Data Structures and Algorithms	COMP1511	6
ENGG2400 Mechanics of Solids 1	ENGG1300	6
<i>MATH2018 or MATH2019</i>		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
COMP1531 Software Engineering Fundamentals	COMP1511	6
DESN2000 Engineering Design and Professional Practice	COMP2521, DESN1000, COMP1511	6
<i>COMP1521</i>		6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
COMP2511 Object-Oriented Design and Programming	COMP2521, COMP1531	6

<i>Discipline Electives</i>		6
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Year 3 Term 1

Course or Activity	Prerequisites	Credits
COMP3900 Computer Science Project	COMP2521, COMP1531	6
<i>COMP3121 or COMP3821</i>		6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
CVEN2002 Civil and Environmental Engineering Computations		6
CVEN2303 Structural Analysis and Modelling	ENGG1300, ENGG2400	6
<i>Computing Electives</i>		6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
COMP4920 Professional Issues and Ethics in Information Technology		6
CVEN3202 Soil Mechanics		6
ENGG2500 Fluid Mechanics for Engineers		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
CVEN3203 Applied Geotechnics and Engineering Geology	CVEN3202	6
CVEN3303 Steel Structures	ENGG1300, ENGG2400	6
CVEN3501 Water Resources Engineering		6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
CVEN3304 Concrete Structures	ENGG1300, ENGG2400	6
CVEN3401 Transport and Highway Engineering		6
CVEN3502 Water and Wastewater Engineering	ENGG2500	6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
CVEN3101 Engineering Operations and Control		6
<i>Discipline Electives</i>		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
CVEN4050 Thesis A		6
<i>Computing Electives</i>		6
<i>Computing Electives</i>		6

Year 5 Term 2

Course or Activity	Prerequisites	Credits
CVEN4051 Thesis B	CVEN4050	6
<i>Civil Engineering</i>		6
<i>Computing Electives</i>		6

Year 5 Term 3

Course or Activity	Prerequisites	Credits
ENGG4999 Industrial Training		0
<i>Computing Electives</i>		6
<i>Computing Electives</i>		6