

# The dual-degree program with Structural Engineering

## Recommended program

Course No.	Course Name	No. of Credit	Course No.	Course Name	No. of Credit
<b>Semester 1</b>			<b>Semester 2</b>		
201-19041	<a href="#">Linear Algebra for Structural Engineering</a>	4.50	201-19721	<a href="#">Calculus 2 for Mechanical Engineering</a>	5.00
201-19711	<a href="#">Calculus 1 for Mechanical Engineering</a>	5.00	203-11391	<a href="#">Physics 1B</a>	3.50
206-11031	<a href="#">Introduction to Minerals and Rocks</a>	4.25	206-11041	<a href="#">Introduction to Dynamic Geology</a>	3.50
206-11051	<a href="#">Geometrical Crystallography</a>	1.00	206-11121	<a href="#">Introduction to Paleontology</a>	2.00
206-11134	<a href="#">Minerals and Rocks in the Field</a>	0.75	371-11681	<a href="#">Programming for Structural Engineering</a>	4.00
374-11011	<a href="#">Structural Engineering Graphics</a>	4.00	374-11103	<a href="#">Chemistry for Structural Engineering</a>	2.50
374-11021	<a href="#">Introduction to Structural Mechanics</a>	4.00	374-11051	<a href="#">Strength of Materials 1 to Structural Engineers</a>	4.00
500-51000	<a href="#">Introduction to chemistry</a>	0.00	374-12040	<a href="#">Structural Drawing</a>	1.50
500-50006	<a href="#">Introduction to Physics Mechanics</a>	0.00	<b>Total</b>		<b>26.00</b>
360-10011	<a href="#">Library Orientation</a>	0.00			
900-55001	<a href="#">Getting to Know the Law for the Prevention of Sexual Harassment</a>	0.00			
<b>Total</b>		<b>23.5</b>			
<b>Semester 3</b>			<b>Semester 4</b>		
201-19031	<a href="#">Introduction to Differential Equations A</a>	3.50	204-11621	<a href="#">Introduction to Physical Chemistry 1</a>	3.00
153-15051	<a href="#">Advanced English B</a>	2.00	206-12251	<a href="#">Mapping</a>	4.50
374-11081	<a href="#">Structural Analysis</a>	3.00	374-11061	<a href="#">Building Material</a>	3.50
374-12010	<a href="#">Strength of Materials 2 to Structural Engineers</a>	4.50	374-12020	<a href="#">Structural Analysis II</a>	3.00
374-12030	<a href="#">Concrete Structures</a>	4.00	374-12060	<a href="#">Concrete Structures 2</a>	4.50
374-12101	<a href="#">Structural Engineering Statistics</a>	3.00	347-12311	<a href="#">Introductory Engineering Economics</a>	3.50
374-14117	<a href="#">Mechanical Behavior of Materials</a>	3.00	374-14011	<a href="#">Numerical Methods In Structural Engineering</a>	3
<b>Total</b>		<b>23.00</b>	General studies		2
			<b>Total</b>		<b>22.50</b>
<b>Semester 5</b>			<b>Semester 6</b>		
203-11431	<a href="#">Physics 2C 1</a>	4.00	206-12121	<a href="#">Igneous and Metamorphic Petrology</a>	3.25
206-12174	<a href="#">Field Trip in Geomechanics</a>	0.50	206-13993	<a href="#">Rock Mechanics Laboratory</a>	2.00
206-12181	<a href="#">Sedimentology</a>	3.00	374-12071	<a href="#">Constructions Methods</a>	3.50
206-12284	<a href="#">Geological Excursion to the Negev</a>	1.00	374-12090	<a href="#">Steel Structures</a>	4.00
206-12241	<a href="#">Mineralogy</a>	3.00	374-13011	<a href="#">CAD in Structural Engineering</a>	3.00
206-17171	<a href="#">Introduction to Geomechanics For Structural Engineering</a>	4.00	374-13041	<a href="#">Structural Design</a>	3.50
206-23921	<a href="#">Mechanics of rocks</a>	2.50	374-13051	<a href="#">Structural Design</a>	3.00
374-12080	<a href="#">Dynamics of Structures</a>	4.50	374-13060	<a href="#">Seismic Design</a>	3.00
374-13020	<a href="#">Introduction to Structural Design</a>	3.00	<b>Total</b>		<b>25.50</b>
<b>Total</b>		<b>25.50</b>			

<b>Semester 7</b>			<b>Semester 8</b>		
206-12311	<a href="#">Structural Geology</a>	3.50	206-12041	<a href="#">Stratigraphy</a>	2.00
206-13041	<a href="#">Introduction to Geophysics</a>	2.50	206-12191	<a href="#">Introduction To Geochemistry</a>	2.50
206-23861	<a href="#">Rock Tunneling</a>	2.25	206-12261	<a href="#">Geology of Israel A</a>	2.00
374-13030	<a href="#">Prestressed Concrete</a>	3.00	206-13091	<a href="#">Plate tectonics</a>	2.50
374-14101	<a href="#">Introduction to Finite Element Method</a>	4.00	374-14041	<a href="#">Geology of Israel A</a>	6.00
374-14020	<a href="#">Capstone Project 1 in Structural Engineering</a>	4.00	374-14050	<a href="#">Spatial Structures</a>	3.00
	Elective Courses in Structural Engineering	2.5		<b>Total</b>	<b>22.75</b>
	Electives in Geological	3.00			
	<b>Total</b>	<b>24.75</b>			
<b>Semester 9</b>					
374-13040	<a href="#">Theory of Fluids</a>	4.00			
374-14041	<a href="#">Capstone Project 2 in Structural Engineering</a>	2.50			
	Elective Courses in Structural Engineering	5.00			
	General studies	3.50			
	Electives in Geological	3.50			
	<b>Total</b>	<b>17.00</b>		<b>Total</b>	<b>210.00</b>