STRUCTURAL ENGINEERING - UNDERGRADUATE MINOR

This minor builds upon existing B.S. degree programs at NMSU in analysis, construction, and design of civil, mechanical, and aerospace structures. It includes 3 required courses (10 credits) from civil engineering and 3 elective courses (9-10 credits) from civil engineering, aerospace/mechanical engineering, and/or engineering technology.

Pr	efix	Title	Credits
Re	Required courses (3 courses)		10
	C E 301	Mechanics of Materials	
	or E T 310	Applied Strength of Materials	
	C E 315	Structural Analysis	
	C E 444	Elements of Steel Design	
Ele	ective courses (3 co	urses) ¹	9-10
То	be selected from th	e following list of courses (numbered 300-499) ²	
Up	per level courses in C	Civil Engineering	
	C E 445	Reinforced Concrete Design	
	C E 469	Structural Systems	
	C E 498	Special Topics ³	
Up	per level courses in A	Nerospace/Mechanical Engineering	
	A E 363	Aerospace Structures	
	A E 451	Aircraft Design	
	M E 331	Intermediate Strength of Materials	
	M E 332	Vibrations	
	M E 425	Design of Machine Elements	
	M E 456	Experimental Modal Analysis	
	M E 460	Applied Finite Elements	
Up	Upper level courses in Engineering Technology		
	ET 332	Applied Design of Structures I	
	ET 432	Applied Design of Structures II	
Total Credits			19-20

elective courses may be taken in same department or different departments

courses numbered 450 and above may be used to satisfy course requirements for the accelerated master's degree program (requires department head approval)

³ special topics in Civil Engineering include advanced mechanics of materials, advanced mechanics of steel structures, advanced mechanics of concrete, finite element methods, non-destructive testing, and bridge engineering (requires department head approval and may be repeated for maximum of 6 credits)