

**UTSA - Ph.D. in Env Science & Engineering
 Department of Civil and Environmental
 Program of Study Worksheet - Grad Catalog 2017-2019**

Name:		Advisor:	
Banner #:		Year Entered Program:	
Students that have obtained a Master's Degree area required to complete the following courses:			
Course	Title	Term	Grade
A. Degree Core Curriculum (10 Semester Credit Hrs)			
CE 5001	Process and Ethics in Thesis/Dissertation Research		
CE 5043	Advanced Civil Engineering Stats		
Or ES 5023	Environmental Statistics		
Or STA 5103	Applied Statistics		
CE 5013	Civil Engineering Systems Analysis		
Or ES 5233	Experimental Design and Analysis		
Or EGR 5213	Topics in Systems Modeling		
Select one of the following			
CE 6113	Global Change		
ES 5043	Global Change		
GEO 5043	Global Change		
B. Track Electives (12 Semester Hrs)			
C. Other Electives (6 semester credit hrs)			
D. Seminars) (2 semester credit hrs)			
CE 6221	Graduate Seminar in Environmental Science and Engineering		
Or ES 5981	Graduate Seminar in Environmental Science and Engineering		
E. Doctoral Dissertation and Research (30 hours) – Option I			
CE 7213	Doctoral Research		
Or CE 7212	Doctoral Research		
Or CE 7211	Doctoral Research		
CE 7313	Doctoral Dissertation		
Or CE 7312	Doctoral Dissertation		
Or CE 7311	Doctoral Dissertation		
Option II			
ES 7213	Doctoral Research		
Or ES 7212	Doctoral Research		
Or ES 7211	Doctoral Research		
ES 7313	Doctoral Dissertation		
Or ES 7312	Doctoral Dissertation		
Or ES 7311	Doctoral Dissertation		
Total Sem Hrs			60 hrs

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