

# Degree Requirements Worksheet – EVEN BS/CHEN BS Dual Degree

Student Name: \_\_\_\_\_

Student#: \_\_\_\_\_

Faculty Advisor: \_\_\_\_\_

## Required Courses

course no.	course name	credits	course taken	grade	term
<u>Engineering (17 hours)</u>					
EVEN 1000	Intro to Environmental Engineering	1	_____	_____	_____
GEEN 1300	Intro to Engineering Computing	3	_____	_____	_____
GEEN 1400	Engineering Projects	3	_____	_____	_____
CHEN 1300	Introduction to Chemical Engineering	1	_____	_____	_____
CHEN 3838	Biology for Engineers	3	_____	_____	_____
CHEN 2120	Chem Engr Matl Energy Balances	3	_____	_____	_____
a	Solid Mechanics	3	_____	_____	_____
CHEN 3200	Chem Engr Fluid Mechanics	3	_____	_____	_____
CVEN 3414	Fundamentals of Environmental Engr	3	_____	_____	_____
CHEN 3010	Applied Data Analysis	3	_____	_____	_____
CHEN 3210	Chem Engr Heat Transfer	3	_____	_____	_____
CHEN 3320	Chem Engr Thermodynamics	3	_____	_____	_____
CHEN 3130	Chem Engr Laboratory 1	2	_____	_____	_____
CHEN 3220	Chem Engr Separatn & Mass Transfer	3	_____	_____	_____
CHEN 4330	Chem Engr Reaction Kinetics	3	_____	_____	_____
CVEN 3454	Water Chemistry	4	_____	_____	_____
CHEN 4090	Undergraduate Seminar	1	_____	_____	_____
CHEN 4130	Chem Engr Laboratory 2	2	_____	_____	_____
CHEN 4520	Chemical Process Synthesis	3	_____	_____	_____
b	Numerical Methods	3	_____	_____	_____
CHEN 4440/	Chemical Engineering Materials/	3	_____	_____	_____
CHEN 4460	Polymer Engineering				
CHEN 4530	Chemical Engineering Design Project	2	_____	_____	_____
CHEN 4570	Instrumentation and Process Control	4	_____	_____	_____
CHEN 4670/	Environmental Separations/	3	_____	_____	_____
CHEN 4680	Environmental Process Engineering				
MCEN 4131	Air Pollution Control	3	_____	_____	_____
CVEN 4434	Environmental Engineering Design	3	_____	_____	_____
CVEN 4484	Intro to Environmental Microbiology	3	_____	_____	_____
c	Engineering Economics	3	_____	_____	_____
			Engineering Total (77)		
<u>Mathematics (16 hours)</u>					
APPM 1350	Calculus 1 for Engineers	4	_____	_____	_____
APPM 1360	Calculus 2 for Engineers	4	_____	_____	_____
APPM 2350	Calculus 3 for Engineers	4	_____	_____	_____
APPM 2360	Intro Diff Eqns with Linear Algebra	4	_____	_____	_____
			Mathematics Total (16)		

## Required Courses (continued)

course no.	course name	credits	course taken	grade	term
<i>Sciences (27 hours)</i>					
CHEM 1211	General Chemistry	3	_____	_____	_____
CHEN 1221	General Chemistry Laboratory	2	_____	_____	_____
PHYS 1110	General Physics 1	4	_____	_____	_____
PHYS 1120	General Physics 2	4	_____	_____	_____
PHYS 1140	Experimental Physics 2	1	_____	_____	_____
CHEM 3311	Organic Chemistry 1	4	_____	_____	_____
CHEM 3321	Laboratory in Organic Chemistry 1	1	_____	_____	_____
CHEM 3331	Organic Chemistry 2	4	_____	_____	_____
CHEM 3341	Laboratory in Organic Chemistry 2	1	_____	_____	_____
CHEM 4521	Physical Chemistry for Engineers	3	_____	_____	_____
		<input type="text"/>	Sciences Total (27)		

## Elective Courses

course no.	course name	credits	course taken	grade	term
<i>Humanities &amp; Social Sciences Electives (18 hours, 6 hours upper division)</i>					
	H&SS (lower or upper division)	_____	_____	_____	_____
	H&SS (lower or upper division)	_____	_____	_____	_____
	H&SS (lower or upper division)	_____	_____	_____	_____
	H&SS (lower or upper division)	_____	_____	_____	_____
d	Required Communication Course	_____	_____	_____	_____
	H&SS (upper division)	_____	_____	_____	_____
		<input type="text"/>	H&SS Total (18)		
<i>Technical Electives (6 hours)</i>					
e	Chemistry Tech Elective	_____	_____	_____	_____
f	Earth Science Tech Elective	_____	_____	_____	_____
		<input type="text"/>	Chemistry and Technical Total (6)		

Credit hour Grand Total:

Grade Point Average:

(143)

Preliminary Check:

Date:

Final Check:

Date:

FE Exam:

Date:

- a Solid Mechanics options: CVEN 2121 Analytical Mechanics, MCEN 2023 Statics and Structures
- b Numerical Methods options: APPM 3050 Scientific Computing in MATLAB, MCEN 4030 Computational Methods; also CVEN 5537 Numerical Methods for Civil Engineers, MCEN 5248 Special Topics – Environmental Modeling.
- c Engineering Economics options: CVEN 4147 Engineering Economy and Systems Design, EMEN 4100 Business Methods and Economics for Engineers
- d WRTG 3030 Writing on Science and Society, Herbst 3100/3200, or another approved course
- e Chemistry technical elective: upper division course from Chemistry and Biochemistry (CHEM)
- f Earth Science technical elective: lower or upper division course in earth sciences (eligible departments and programs include APAS, ATOC, CVEN, GEOL, and GEOG)