

# B.S. Engineering Science - Environmental Science concentration

Click on the course number to view course title and description.

Code	Title	Semester Hours
<b>BS Engineering Science - Environmental Science concentration Degree Plan (128 hours)</b>		
<b>Core Requirements (47 hours)</b>		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		6
EG 1303	Engineering and Society	
EG 2393	Engineering Economy	
Mathematics		4
MT 2412	Calculus I	
Natural or Physical Sciences		4
PY 1404	University Physics I	
Foreign Language and International Engagement		6
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams		
Fine Arts		3
EG 1341	Graphics and Design	
Philosophy - Self		3
PL 1301	Intro to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
<b>Engineering Science Major Courses - Environmental Science concentration (81 hours)</b>		
CH 1401	General Chemistry I	4
CH 1402	General Chemistry II	4
EG 1113	C Programming for Engineering Lab	1
EG 1213	C Programming for Engineering	2
EG 2121	Circuit Analysis Laboratory	1
EG 2321		3
EG 2324	Circuits Analysis II	3
EG 2343	Statics	3
EG 2346	Strength of Materials	3
EG 3101	Eng. Design & Analysis Workshop I	1
EG 3102	Eng. Design & Analysis Workshop II	1

EG 3191	Data Visualization and Analytics Laboratory	1
EG 3391	Data Analytics and Information Engineering	3
EG 3341	Materials Engineering	3
EG 3343	Fluid Mechanics	3
EG 3395	Industrial Statistics and Design of Experiments	3
EG 4101	Eng. Design & Analysis Workshop III	1
EG 4301	Senior Design Project I	3
EG 4302	Senior Design Project II	3
ES 1100	General Geology Laboratory	1
ES 1173	Environmental Science Lab	1
ES 1300	General Geology	3
ES 1373	Introductory Environmental Science	3
ES 2325	Energy Resources and the Environment	3
ES 2350	Environmental Geology	3
ES 2150	Environmental Geology Lab	1
MT 2332	Advanced Math for Engineers I	3
MT 2413	Calculus II	4
PY 2404	University Physics II	4
<b>linkurl^..1, 2 and 3: choose a minimum of 9 credit hours from the following:/^ES Electives</b>		<b>9</b>
Any ES course not already on the degree plan		

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**Total Semester Hours** **128**

*This is a recommended degree plan subject to changes. Please meet with your advisor on a regular basis.*

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#### First Year

Fall	Semester Spring Hours	Semester Hours
EG 1113	1 MT 2413	4
EG 1213	2 PY 2404	4
EG 1303	3 FYE 1301	3
EN 1311	3 History	3
MT 2412	4 EG 1341	3
PY 1404	4	
<b>17</b>		<b>17</b>

#### Second Year

Fall	Semester Spring Hours	Semester Hours
ES 1100	1 CH 1402	4
ES 1300	3 ES 1173	1
CH 1401	4 ES 1373	3
EG 2121	1 PL 1301	3
EG 2321	3 Literature	3
MT 2332	3 EG 2324*	3
EG 2343	3	
<b>18</b>		<b>17</b>

#### Third Year

Fall	Semester Spring Hours	Semester Hours
EG 3101	1 EG 3102	1
EG 3341	3 ES 2325	3
EG 3343	3 ES 2450	4
ES Elective #1	3 PL 2301	3

EG 3395	3 TH 1301	3
EG 3191	1 EG 2346*	3
EG 3391	3	
<b>17</b>		<b>17</b>

**Fourth Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
EG 4101	1 EG 4302	3
EG 4301	3 ES Elective #3	3
ES Elective #2	3 Foreign Language II	3
Theology II	3 EG 2393	3
Foreign Language I	3	
<b>13</b>		<b>12</b>

**Total Semester Hours 128**

\* Students in combined BS-MS may register for an equivalent EG63XX or EG73XX (with EG Chairs' approval)