Degree: BS MS Environmental Geoscience (Environmental Science Majors on Project Track)				
Requirement Area	**Course**	**Course Title**	**Prerequisites**	**Units**
First Semester (FALL)				
1A		Written Communication		3
Major Required and Area 5 Physical and Biological Sciences (Physical) (old B1) 5A and SUST	EESC 280	Humans and the Environment in California Units: 3 Breadth Area: GE-5A; Sustainability		3
Area 4/Code 1		Social Science and U.S. Code (US 1,2)		3
Major Required	PHYS 125	Principles of Physics I Units: 4 ; Breadth Area: GE-5A 5C	Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
Major Required	EESC 297	Introductory Field Experience Units: 1		1
			Total:	14
Second Semester (SPRING)				
1C		Oral Communication		3
Area 4/Code 2		Social Sciences and U.S. Code (1,3)		3
Area 2	MATH 130	Calculus I Units: 4 ; Breadth Area: GE-2	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH	3
Major Required	PHYS 126	Principles of Physics II Units: 4 ; Breadth Area: GE-5A 5C		4
Free Elective				3

			Total:	16
Third Semester (FALL)				
Area 1B		Critical Thinking		3
Major Required and Area 5 Physical and Biological Sciences (Biological) (old B2) 5B	EESC 240	Environmental Biology Units: 3 ; Breadth Area: GE-5B		3
Major Required and Area 5 Physical and Biological Sciences (Biological) (old B2) 5C	EESC 241	Environmental Biology Laboratory Units: 1 ; Breadth Area: GE-5C		1
Major Required and Area 5 Physical and Biological Sciences (Physical) 5A	EESC 210	Physical and Environmental Geology and Geography Units: 4 with lab Breadth Area: GE-5A, GE-5C		4
Major Required	CHEM 111	General Chemistry I Units: 3 ; Breadth Area: GE-5A		3
Major Required	CHEM 111L	Breadth Area: GE-5C		2
			Total:	16
Fourth Semester (SPRING)				
Area 6		Ethnic Studies		3
3A		Arts & Humanities		3

Major Required	CHEM 112	General Chemistry II Units: 3	CHEM 111 & CHEM 111L with a C- or higher	3
Major Required	CHEM 112L	General Chemistry II Laboatory Units: 2	CHEM 111 & CHEM 111L with a C- or higher	2
3B		Arts & Humanities		3
			Total:	14
Fifth Semester (FALL)				
UD Areas 5		Upper-division Science or Mathematical Concepts/Quantitative Reasoning	Completion of Areas 1 & 2.	3
UWR		University Writing Req		3
Major Required	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences Units :3		3
Major Required	EESC 397	Advanced Field Experience Units: 2	EESC 297	2
Major Required	STAT 303	Statistical Methods in Biology Units: 3		3
Free Elective/EESC 133 (Transfer)	TBD	TBD		1
			Total:	15
Sixth Semester (SPRING)				
UD Area 3		UD Arts OR Humanities	Completion of Areas 1 &2.	3
Overlay -Social Justice (SJ)				3
UD Area 4		UD Social and Behavioral Sciences	Completion of Areas 1 &2.	3
Major Required	BIOL 350	Ecology Units: 4	STAT 303 and EESC 241 or BIOL 140B with grade C- or better	4
Free Elective	TBD	TBD		3
			Total:	16
Seventh Semester (FALL)				

Overlay -Diversity (Div)				3
Major Required	EESC 420	Global Climate Change Units: 3 GE SUST		3
Major Required Elective	EESC 350 or EESC 432	Environmental Hydrology Units: 4 or Hydrogeology Units: 4	EESC 350 requires either CHEM 100 or CHEM 111, and either MATH 120, MATH 125, or MATH 130, and Highy	4
Major Required Elective	EESC 675, EESC 655, EESC 645	Fire Ecology and Management, Sustainable Food Systems, Water Resources and Watersheds	EESC 460 requires EESC 360	3
Free Elective	TBD	TBD		3
			Total:	16
Eighth Semester (SPRING)				
Major Required	EESC 499	Capstone Seminar in Earth, Environmental and Sustainability Sciences Units: 3		3
Major Required	EESC 410	Environmental Impact Analysis Units: 3		3
Major Required Elective	EESC 651, EESC 660, EESC 661	Hydroinformatics, Advanced GIS in Earth, Environmental and Sustainability Sciences , Remote Sensing of the Environment in Earth, Environmental and Sustainability Sciences		4

Major Required Elective	EESC 634, EESC 631, EESC 633	Biogeochemistry, Isotope Geochemistry, Science of Soils	EESC 634 requires PHYS 125, PHYS 126, and CHEM 110 or CHEM 111. and EESC 631 requires CHEM 112 and CHEM 112L	4
			Total:	14
Ninth Semester (FALL)				
Grad Major	EESC 632, EESC 622, EESC 641	Groundwater Flow and Contaminant Transport, Seismic Exploration, Earthquake Geology		4
Grad Major	EESC 601	Professional Ethics in Environmental Geosciences		1
Grad Major	EESC 693	Project		1
UD Major or Grad Major	EESC 3xx-6xx	Choice of Class		4
			Total:	10
Ten Semester (SPRING)				
Grad Major	EESC 6xx	Choice of Grad Class		4
Grad Major	EESC 602	Graduate Seminar		2
Grad Major	EESC 693	Project		1
Grad Major	EESC 671	Field Experience		2
			Total:	9
Total Units:				140

Degree: BS MS Environmental Geoscience (Environmental Science Majors on Thesis Track)				
Requirement Area	**Course**	**Course Title**	**Prerequisites**	**Units**
First Semester (FALL)				
1A		Written Communication		3
Major Required and Area 5 Physical and Biological Sciences (Physical) (old B1) 5A and SUST	EESC 280	Humans and the Environment in California Units: 3 Breadth Area: GE-5A; Sustainability		3
Area 4/Code 1		Social Science and U.S. Code (US 1,2)		3
Major Required	PHYS 125	Principles of Physics I Units: 4 ; Breadth Area: GE-5A 5C	Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
Major Required	EESC 297	Introductory Field Experience Units: 1		1
			Total:	14
Second Semester (SPRING)				
1C		Oral Communication		3
Area 4/Code 2		Social Sciences and U.S. Code (1,3)		3
Area 2	MATH 130	Calculus I Units: 4 ; Breadth Area: GE-2	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH	3
Major Required	PHYS 126	Principles of Physics II Units: 4 ; Breadth Area: GE-5A 5C		4
Free Elective				3

			Total:	16
Third Semester (FALL)				
Area 1B		Critical Thinking		3
Major Required and Area 5 Physical and Biological Sciences (Biological) (old B2) 5B	EESC 240	Environmental Biology Units: 3 ; Breadth Area: GE-5B		3
Major Required and Area 5 Physical and Biological Sciences (Biological) (old B2) 5C	EESC 241	Environmental Biology Laboratory Units: 1 ; Breadth Area: GE-5C		1
Major Required and Area 5 Physical and Biological Sciences (Physical) 5A	EESC 210	Physical and Environmental Geology and Geography Units: 4 with lab Breadth Area: GE-5A, GE-5C		4
Major Required	CHEM 111	General Chemistry I Units: 3 ; Breadth Area: GE-5A		3
Major Required	CHEM 111L	Area: GE-5C		2
			Total:	16
Fourth Semester (SPRING)				
Area 6		Ethnic Studies		3
3A		Arts & Humanities		3

Major Required	CHEM 112	General Chemistry II Units: 3	CHEM 111 & CHEM 111L with a C- or higher	3
Major Required	CHEM 112L	General Chemistry II Laboatory Units: 2	CHEM 111 & CHEM 111L with a C- or higher	2
3B		Arts & Humanities		3
			Total:	14
Fifth Semester (FALL)				
UD Areas 5		Upper-division Science or Mathematical Concepts/Quantitative Reasoning	Completion of Areas 1 & 2.	3
UWR		University Writing Req		3
Major Required	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences Units :3		3
Major Required	EESC 397	Advanced Field Experience Units: 2	EESC 297	2
Major Required	STAT 303	Statistical Methods in Biology Units: 3		3
Free Elective/EESC 133 (Transfer)	TBD	TBD		1
			Total:	15
Sixth Semester (SPRING)				
UD Area 3		UD Arts OR Humanities	Completion of Areas 1 &2.	3
Overlay -Social Justice (SJ)				3
UD Area 4		UD Social and Behavioral Sciences	Completion of Areas 1 &2.	3
Major Required	BIOL 350	Ecology Units: 4	STAT 303 and EESC 241 or BIOL 140B with grade C- or better	4
Free Elective	TBD	TBD		3
			Total:	16
Seventh Semester (FALL)				

Overlay -Diversity (Div)				3
Major Required	EESC 420	Global Climate Change Units: 3 GE SUST		3
Major Required Elective	EESC 350 or EESC 432	Environmental Hydrology Units: 4 or Hydrogeology Units: 4	CHEM 100 or CHEM 111, and either MATH 120, MATH 125, or MATH 130, and Highy	4
Major Required Elective	EESC 675, EESC 655, EESC 645	Fire Ecology and Management, Sustainable Food Systems, Water Resources and Watersheds		3
Free Elective	TBD	TBD		3
			Total:	16
Eighth Semester (SPRING)				
Major Required	EESC 499	Capstone Seminar in Earth, Environmental and Sustainability Sciences Units: 3		3
Major Required	EESC 410	Environmental Impact Analysis Units: 3		3
Major Required Elective	EESC 651, EESC 660, EESC 661	Hydroinformatics, Advanced GIS in Earth, Environmental and Sustainability Sciences , Remote Sensing of the Environment in Earth, Environmental and Sustainability Sciences	EESC 660 requires EESC 360	4
Major Required Elective	EESC 634, EESC 631, EESC 633	Biogeochemistry, Isotope Geochemistry, Science of Soils	EESC 634 requires PHYS 125, PHYS 126, and CHEM 110 or CHEM 111. and EESC 631 requires CHEM 112 and CHEM 112L	4

			Total:	14
Ninth Semester (FALL)				
Grad Major	EESC 632, EESC 622, EESC 641	Groundwater Flow and Contaminant Transport, Seismic Exploration, Earthquake Geology		4
Grad Major	EESC 601	Professional Ethics in Environmental Geosciences		1
Grad Major	EESC 691	University Thesis		3
			Total:	8
Ten Semester (SPRING)				
Grad Major	EESC 6xx	Choice of Grad Class		4
Grad Major	EESC 602	Graduate Seminar		2
Grad Major	EESC 691	University Thesis		3
Grad Major	EESC 671	Field Experience		2
			Total:	11
Total Units:				140

Degree: BS MS Environmental Geoscience (Environmental Science Majors on Exam Track)				
Requirement Area	**Course**	**Course Title**	**Prerequisites**	**Units**
First Semester (FALL)				
1A		Written Communication		3
Major Required and Area 5 Physical and Biological Sciences (Physical) (old B1) 5A and SUST	EESC 280	Humans and the Environment in California Units: 3 Breadth Area: GE-5A; Sustainability		3
Area 4/Code 1		Social Science and U.S. Code (US 1,2)		3
Major Required	PHYS 125	Principles of Physics I Units: 4 ; Breadth Area: GE-5A 5C	Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
Major Required	EESC 297	Introductory Field Experience Units: 1		1
			Total:	14
Second Semester (SPRING)				
1C		Oral Communication		3
Area 4/Code 2		Social Sciences and U.S. Code (1,3)		3
Area 2	MATH 130	Calculus I Units: 4 ; Breadth Area: GE-2	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH	3
Major Required	PHYS 126	Principles of Physics II Units: 4 ; Breadth Area: GE-5A 5C		4
Free Elective				3

			Total:	16
Third Semester (FALL)				
Area 1B		Critical Thinking		3
Major Required and Area 5 Physical and Biological Sciences (Biological) (old B2) 5B	EESC 240	Environmental Biology Units: 3 ; Breadth Area: GE-5B		3
Major Required and Area 5 Physical and Biological Sciences (Biological) (old B2) 5C	EESC 241	Environmental Biology Laboratory Units: 1 ; Breadth Area: GE-5C		1
Major Required and Area 5 Physical and Biological Sciences (Physical) 5A	EESC 210	Physical and Environmental Geology and Geography Units: 4 with lab Breadth Area: GE-5A, GE-5C		4
Major Required	CHEM 111	General Chemistry I Units: 3 ; Breadth Area: GE-5A		3
Major Required	CHEM 111L	Breadth Area: GE-5C		2
			Total:	16
Fourth Semester (SPRING)				
Area 6		Ethnic Studies		3
3A		Arts & Humanities		3

Major Required	CHEM 112	General Chemistry II Units: 3	CHEM 111 & CHEM 111L with a C- or higher	3
Major Required	CHEM 112L	General Chemistry II Laboatory Units: 2	CHEM 111 & CHEM 111L with a C- or higher	2
3B		Arts & Humanities		3
			Total:	14
Fifth Semester (FALL)				
UD Areas 5		Upper-division Science or Mathematical Concepts/Quantitative Reasoning	Completion of Areas 1 & 2.	3
UWR		University Writing Req		3
Major Required	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences Units :3		3
Major Required	EESC 397	Advanced Field Experience Units: 2	EESC 297	2
Major Required	STAT 303	Statistical Methods in Biology Units: 3		3
Free Elective/EESC 133 (Transfer)	TBD	TBD		1
			Total:	15
Sixth Semester (SPRING)				
UD Area 3		UD Arts OR Humanities	Completion of Areas 1 &2.	3
Overlay -Social Justice (SJ)				3
UD Area 4		UD Social and Behavioral Sciences	Completion of Areas 1 &2.	3
Major Required	BIOL 350	Ecology Units: 4	STAT 303 and EESC 241 or BIOL 140B with grade C- or better	4
Free Elective	TBD	TBD		3
			Total:	16
Seventh Semester (FALL)				

Overlay -Diversity (Div)				3
Major Required	EESC 420	Global Climate Change Units: 3 GE SUST		3
Major Required Elective	EESC 350 or EESC 432	Environmental Hydrology Units: 4 or Hydrogeology Units: 4	EESC 350 requires either CHEM 100 or CHEM 111, and either MATH 120, MATH 125, or MATH 130, and Highy	4
Major Required Elective	EESC 675, EESC 655, EESC 645	Fire Ecology and Management, Sustainable Food Systems, Water Resources and Watersheds	EESC 460 requires EESC 360	3
Free Elective	TBD	TBD		3
			Total:	16
Eighth Semester (SPRING)				
Major Required	EESC 499	Capstone Seminar in Earth, Environmental and Sustainability Sciences Units: 3		3
Major Required	EESC 410	Environmental Impact Analysis Units: 3		3
Major Required Elective	EESC 651, EESC 660, EESC 661	Hydroinformatics, Advanced GIS in Earth, Environmental and Sustainability Sciences , Remote Sensing of the Environment in Earth, Environmental and Sustainability Sciences	EESC 660 requires EESC 360	4

Major Required Elective	EESC 634, EESC 631, EESC 633	Biogeochemistry, Isotope Geochemistry, Science of Soils	EESC 634 requires PHYS 125, PHYS 126, and CHEM 110 or CHEM 111. and EESC 631 requires CHEM 112 and CHEM 112L	4
			Total:	14
Ninth Semester (FALL)				
Grad Major	EESC 632, EESC 622, EESC 641	Groundwater Flow and Contaminant Transport, Seismic Exploration, Earthquake Geology		4
Grad Major	EESC 601	Professional Ethics in Environmental Geosciences		1
UD Major or Grad Major	EESC 3xx-6xx	Choice of Class		4
			Total:	9
Ten Semester (SPRING)				
Grad Major	EESC 6xx	Choice of Grad Class		4
Grad Major	EESC 602	Graduate Seminar		2
Grad Major	EESC 692	Exam		2
Grad Major	EESC 671	Field Experience		2
			Total:	10
Total Units:				140