

# Four Year Roadmap - Climate Science Concentration

- For students ready to enter MATH 30 in their first semester at SJSU, this roadmap is a path to graduation in four years, assuming classes are taken exactly in the order and semester shown. Other students may need to take pre-calculus math, and/or summer school, and/or extra semesters to graduate.

- Please note that ALL METR classes (except METR 10) are given ONLY in the semester indicated below (e.g., METR 71 is given only in SPRING).

## Suggested Course Schedule for Students entering Fall 11

Freshman				
	Units	Spring	Units	
<b>Fall</b>				
Metr 12 (Global Warming: Science & Solutions)	3	Phys 2B (Fundamentals of Physics)	4	
Phys 2A (Fundamentals of Physics)	4	Math 30 (Calculus I)	3	
Sci 2 (Success in Science, GE #1)	3	Metr 40 (Weather Seminar) **	1	
Math 19 (Pre-Calculus)	5	ENVS 1 (GE #2)	3	
		GE #4 and #5	6	
<b>TOTAL UNITS</b>	<b>15</b>		<b>17</b>	<b>26</b>
<b>(10 units count towards major)</b>		<b>(16 units count towards major)</b>		

Sophomore				
	Units	Spring	Units	
<b>Fall</b>				
Metr 50 (Computing - Fortran)	2	Metr 51 (Computing - C++/Matlab)	2	
Metr 60 (Intro to Meteorology) <sup>2</sup>	3	Metr 71 (Intro to Climate Science)	2	
Chem 1A (General Chemistry)	5	Biol 001A (Foundations in Biodiversity)	5	
Geol 3 (Planet Earth)	3	GE #6 and #7	6	
GE #5	3	Kin	1	
Kin	1			
<b>TOTAL UNITS</b>	<b>17</b>		<b>16</b>	<b>59</b>

Junior				
	Units	Spring	Units	
<b>Fall</b>				
Metr 100W (Writing Workshop)	3	Metr 163 (Meteorological Instrumentation)	3	
Metr 135 (The Global Carbon Cycle)	3	Engr 103 (life Cycle Engineering)	3	
Metr 136 (Empirical Techniques in Meteorology)	3	Envs 119 (Energy and the Environment)	3	
GE #8 and #9	6	Elective 1	3	
		GE #10	3	
<b>TOTAL UNITS</b>	<b>15</b>		<b>15</b>	<b>89</b>

Senior				
	Units	Spring	Units	
<b>Fall</b>				
Metr 123 (Advanced Climatology)	3	Metr 174 (Climate Change Solutions)	3	
Metr 173 (Global Climate Modeling)	3	Envs 133 (Alternative Energy Strategies)	3	
Comm 146F (Communication & the Environment)	4	Elective 3	3	
Elective 2	3	ADV GE #2 and #3	6	
ADV GE #1	3			
<b>TOTAL UNITS</b>	<b>16</b>		<b>15</b>	
		<b>Total Units for Major</b>		<b>120</b>

\* Math 19 does not count towards BS degree, but is a prerequisite for Math 30

\*\* Recommended but not required

### ELECTIVES (take 3 classes in consultation with advisor)

<b>ENVS 107</b>	Env Econ & Policy	<b>GEOG 120</b>	Food Supply & Ag. Systems
<b>ENVS 116</b>	Solar Energy Theory	<b>GEOG 124</b>	Topics in Physical Geography
<b>ENVS 124</b>	Env. Law	<b>GEOG 130</b>	Natural Resources
<b>ENVS 128</b>	Water Resource Management	<b>GEOG 170</b>	Mapping & GIS
<b>ENVS 130</b>	Energy Policy Analysis	<b>GEOG 171</b>	Mapping & GIS Analysis
<b>ENVS 132</b>	Solar Home Design	<b>GEOG 181</b>	Remote Sensing
		<b>GEOG 182</b>	Remote Sensing/digital