

UC San Diego - WASC Exhibit 7.1

Inventory of Educational Effectiveness Indicators

Academic Program	(1) Have formal learning outcomes been developed?	(2) What are these learning outcomes? <hr/> Where are they published? (Please specify)	(3) Other than GPA, what data/evidence is used to determine that graduates have achieved stated outcomes for the degree? (e.g., capstone course, portfolio review, licensure examination)	(4) Who interprets the evidence? What is the process?	(5) How are the findings used?	(6) Date of last Academic Senate Review?
<p>Department: <i>Scripps Institution of Oceanography</i></p> <p>Major: <i>Earth Sciences</i></p>	<p style="text-align: center;">Yes</p>	<p>The California Board for Geologists and Geophysicists administer examinations for becoming a licensed Professional Geologist: www.geology.ca.gov/forms-pubs/geolicensure.pdf. Our curriculum satisfies the academic course requirements recommended as preparation for students to take the licensure exam.</p> <p>Students graduating with a degree should be able to:</p> <ol style="list-style-type: none"> 1) <i>Recognize common rocks and minerals in hand sample and thin section.</i> 2) <i>Read topographic and geological maps and airphotos.</i> 3) <i>Make and analyze geological and geophysical measurement and interpret geological features in the field</i> 4) <i>Understand the origin, structure and history of the Earth and how the Earth System works.</i> <hr/> <p>Learning outcomes published:</p> <ul style="list-style-type: none"> • <i>siundergrad.ucsd.edu/curriculum/</i> 	<ul style="list-style-type: none"> • <i>Minimum of Math 20A-D, Physics 2A-C, Chemistry 6 sequences and Biology 3 as required lower division courses</i> • <i>Minimum of 48 units of upper-division courses in the major</i> • <i>Outcome 1 is met successfully by completion of SIO 50, 120 and 152.</i> • <i>Outcome 2 is met by completion of SIO 100.</i> • <i>Outcome 3 is met by completion of SIO 100, SIO 105, 162, 182A and B.</i> • <i>Outcome 4 is met by completion of SIO 102, 103, 104, 160.</i> • <i>Each year students are asked to complete an exit survey. Our top students qualify for admission to the contiguous Master's program. Our students go into K-14 teaching, become laboratory assistants at SIO and elsewhere, pursue graduate degrees or get jobs at environmental consulting firms or in the petroleum industry.</i> 	<ul style="list-style-type: none"> • <i>The Director and Associate Director of SIO Undergraduate majors oversee requirements which are endorsed by the faculty and have been approved by CEP.</i> • <i>The Director or Associate Director act on all requests/petitions for all variations of requirements.</i> • <i>SIO collects student feedback on all courses. This material is reviewed by the Director.</i> 	<ul style="list-style-type: none"> • <i>Individual course instructors use feedback to modify their courses</i> • <i>The department periodically reviews the majors and restructures course requirements.</i> 	<p style="text-align: center;"><i>The SIO major started in 2007.</i></p> <p style="text-align: center;"><i>Program Reviewed 2012</i></p>