

**UNIVERSITY OF CALIFORNIA, SAN DIEGO  
EDUCATIONAL EFFECTIVENESS REVIEW  
PRESCRIBED EXHIBITS AND DATA DISPLAYS**

**Table 7.1b  
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**Inventory of Educational Effectiveness Indicators - Graduate**  
(as of 06/2015)

Department/ Program	Degree Type	Degree	(2) What are these learning outcomes? Where are they published?		(3) What data/evidence is used to determine that graduates have achieved the stated outcomes?	(4) Who interprets the evidence? What is the Process?		
<b>Mathematics</b>  (1) Formal learning outcomes? Yes  (6) Date of last Academic Senate Review: 2006-07	Master of Arts	Mathematics	Have a strong mathematical background in preparation for careers in teaching or industry or government, or for pursuing a Ph.D.	<a href="#">Program Website</a>	<a href="#">Catalog Copy</a>	Two written comprehensive examinations	Department Faculty	Complete coursework and pass exams
		Mathematics: Applied	Have a strong mathematical background in preparation for careers in teaching or industry or government, or for pursuing a Ph.D.	<a href="#">Program Website</a>	<a href="#">Catalog Copy</a>	Two written comprehensive examinations	Department Faculty	Complete coursework and pass exams
	Master of Science	Statistics	Have a strong mathematical background and experience in statistical computing with various applications.	<a href="#">Program Website</a>	<a href="#">Catalog Copy</a>	Two written comprehensive examinations	Department Faculty	Complete coursework and pass exams
	Doctor of Philosophy	Mathematics	Have a preparation in teaching and a broad knowledge of mathematics for careers as university professors, as well as careers in industry or government.	<a href="#">Program Website</a>	<a href="#">Catalog Copy</a>	Three qualifying exams, written dissertation and a public oral defense.	Qualifying exam and appeals committee (QEAC), Department Faculty, Doctoral Committee	Pass all examinations, write dissertation and defend in an oral examination.
		Mathematics with Specialization in Bioinformatics	Be equipped with interdisciplinary skills needed in businesses such as the pharmaceutical industry, agrobusiness, and biotechnology companies, or in academia, where there is a great need for academic faculty who have broad, interdisciplinary training.	<a href="#">Program Website</a>	<a href="#">Catalog Copy</a>	Qualifying examinations, teaching requirement, research training, written dissertation and a public oral defense.	Interdisciplinary Doctoral Committee comprised of members of home department, Bioinformatics, and other faculty.	Pass all examinations, complete requirements and training for both departments, write dissertation and defend in an oral examination.
		Mathematics with Specialization in Computational Science	This Ph.D. specialization is designed to allow students to obtain standard basic training in their chosen field of science, mathematics, or engineering with a specialization in computational science integrated into their graduate studies.	<a href="#">Program Website</a>	<a href="#">Catalog Copy</a>	Qualifying examinations, proficiency requirements, written dissertation and a public oral defense.	Qualifying exam and appeals committee (QEAC), Department Faculty, Doctoral Committee	Pass all examinations, complete proficiency requirements, write dissertation and defend in an oral examination.
Mathematics with Specialization in Statistics		This Ph.D. specialization is designed to provide a student with solid training in statistical theory and methodology that finds broad application in various areas of scientific research including natural, biomedical and social sciences, as well as engineering, finance, business management, and government regulations.	<a href="#">Program Website</a>	<a href="#">Catalog Copy</a>	Qualifying and comprehensive examinations, data analysis training, written dissertation and a public oral defense.	Qualifying exam and appeals committee (QEAC), Department Faculty, Doctoral Committee	Pass all examinations, complete all requirements and training, write dissertation and defend in an oral examination.	