

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

**Table 7.1b
(Page 1 of 2)**

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?	
				Program Website	Catalog Copy			
Computer Science and Engineering (1) Formal learning outcomes? Yes (6) Date of last Academic Senate Review: 2007-08	Master of Science	Computer Science	Specialize in distinct areas of study including: algorithms and complexity, artificial intelligence, bioinformatics, computer architecture and compilers, computer graphics and computer vision, databases and information management, embedded systems and software, high-performance computing, programming systems, security and cryptography, software engineering, systems and networking and VLSI/CAD (computer-aided design).	Program Website	Catalog Copy	Plan 1: Written master's thesis; Plan 2: Comprehensive written examination	Plan 1: Thesis Committee; Plan 2: Computer Science Graduate Department	Plan 1: Write master's thesis and have it reviewed by the thesis committee; Plan 2: Pass comprehensive examination
		Computer Science: Computer Engineering	Computer engineering explores the engineering analysis and design aspects of algorithms and technology. Specific research areas include computer systems, signal processing systems, architecture, networks, computer-aided design, fault tolerance, and data storage systems.	Program Website	Catalog Copy			
	Doctor of Philosophy	Computer Science	Be prepared for research, industrial or entrepreneurial career spanning fundamental aspects and application of computation, spanning theory, software, hardware, and applications.	Program Website	Catalog Copy	Qualifying examinations, teaching requirement, research training, written dissertation and oral examination in defense of dissertation	Doctoral Committee	Pass all examinations, complete requirements and training for both departments, write dissertation and defend in an oral examination.

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

**Table 7.1b
(Page 2 of 2)**

**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?		
Computer Science and Engineering (continued)		Computer Science: Computer Engineering	Be prepared for research, industrial or entrepreneurial career spanning fundamental aspects and application of computation, spanning theory, software, hardware, and applications.	Program Website	Catalog Copy	Qualifying examinations, teaching requirement, research training, written dissertation and oral examination in defense of dissertation	Doctoral Committee	Pass all examinations, complete requirements and training for both departments, write dissertation and defend in an oral examination.
		Computer Science with Concentration in Cognitive Science	Research in computer science and cognitive science.	Program Website	Catalog Copy	Qualifying examinations, teaching requirement, research training, written dissertation and oral examination in defense of dissertation	Interdisciplinary Dissertation Committee	Pass all examinations, complete requirements and training for both departments, write dissertation and defend in an oral examination.
		Computer Science 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.	Program Website	Catalog Copy	Qualifying examinations, teaching requirement, research training, written dissertation and oral examination in defense of dissertation	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.
		Computer Science 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.	Program Website	Catalog Copy	Qualifying examinations, teaching requirement, research training, written dissertation and oral examination in defense of dissertation	Department Faculty, Doctoral Committee	Pass all examinations, complete all requirements and training, write dissertation and defend in an oral examination.