Concentration Contract: Sc.B. in Applied Math/CS

Name _____ Graduation Year _____

General Instructions: fill this out as well as possible, print it, and then complete it with your concentration advisor and have her/him sign it. Put in *only* those courses used for the concentration. Put check marks in the boxes in the leftmost column for those courses that have been completed. Any changes to your contract must be initialed and dated by your advisor. The contract must be reviewed and reapproved yearly. (If there are no changes, review is still required, but approval is automatic.) Electronic submission is not available at this time.

Completed		**Will take when**	**Placement**	**Office Use Only**
Math Prerequisites				
☐	Second-semester Calculus course (e.g. Math 0100, 0170, or 0190)	_____	☐	
Core Math and Applied Math Requirements				
☐	Math 0180 or Math 0350 (Intermediate Calculus)	_____	☐	
☐	Math 0520 or Math 0540 or CSCI 0530 (Linear Algebra)	_____	☐	
☐	APMA 0350 (Methods of Appl Math I)	_____	☐	
☐	APMA 0360 (Methods of Appl Math II)	_____	☐	
☐	APMA 1170 or 1180 (Numerical Analysis)	_____	☐	
Core Computer Science				
☐	CSCI 0150 (Intro to Programming and CS)	Fall _____		
	CSCI 0160 (Intro to Algs & Data Structs)	Spring _____		
	or			
☐	CSCI 0170 (CS: Integrated Approach I)	Fall _____		
	CSCI 0180 (CS: Integrated Approach II)	Spring _____		
	or			
☐	CSCI 0190 (Programming and Data Structs & Algs)	Fall _____		
	Advanced CS course (see web page) #_____	_____		
	Three intermediate courses, of which one must be math-oriented and one must be systems-oriented:			
☐	CSCI 0220 (Intro to Discrete Math) (math)	Spring _____		
☐	CSCI 0450 or 1450 (Intro to Prob. And Computing) (math)	_____		
☐	CSCI 0310 or 0330 (Intro to Computer Systems) (systems)	Fall _____		
☐	CSCI 0320 (Intro to Software Engineering) (systems)	Spring _____		
☐	CSCI 1010 (Models of Computation) (math)	Fall _____		

Advanced Applied Math

☐	APMA 1200 (Operations Research: Prob. Models)	Fall _____	
☐	APMA 1210 (Operations Research: Det. Models)	Spring _____	
☐	APMA 1650 (Statistical Inference I)*	Fall _____	
☐	APMA 1660 (Statistical Inference II)	Spring _____	
☐	Other approved 1000-level course #_____	Fall _____	
☐	Follow-up approved 1000-level course #_____	Spring _____	

*CSCI 1450 and APMA 1650 may not both be taken for concentration credit.

One Additional 1000-level Applied Math Course

☐	_____	_____	

Advanced Computer Science

Three courses in CS or related areas. All must be at the 1000 level or higher. Two of the courses must be either chosen from the list of approved pairs found at http://www.cs.brown.edu/ugrad/concentrations/approvedpairs or approved by the director of undergraduate studies. If CSCI 1450 is used as an intermediate course, it may not also be used as an advanced course.

☐	Course 1 of approved pair	# _____	_____	
☐	Course 2 of approved pair	# _____	_____	
☐	Other approved course	# _____	_____	

Capstone Course

☐	# _____	_____	

The above is my plan for meeting the degree requirements. It is my responsibility to make certain that all courses taken at Brown for concentration credit, all courses taken at other schools for which transfer credit has been approved for concentration credit, and all AP credits appear on my transcript.

_____ Student Signature

_____ Advisor Signature

_____ Date

_____ Advisor Name (printed)

Reviewed and reapproved (at yearly meeting with concentration advisor):

_____ _____

Student Signature Advisor Signature

_____ _____

Date Advisor Name (printed)

Reviewed and reapproved (at yearly meeting with concentration advisor):

_____ _____

Student Signature Advisor Signature

_____ _____

Date Advisor Name (printed)