

INTERDEPARTMENTAL GRADUATE PROGRAM IN DYNAMICAL NEUROSCIENCE

<http://www.dyns.ucsb.edu>

College of Letters and Science

University of California, Santa Barbara

Student Name: _____

Perm: _____

MASTER OF ARTS – DYNAMICAL NEUROSCIENCE – 2021-22 (Plan II, Exam or Project)

In addition to departmental requirements, candidates for graduate degrees must fulfill University requirements described in the “Graduate Education” section of the UCSB General Catalog.

While we do not provide admission to the M.A. or M.A./Ph.D.—admission is to the Ph.D. only—Master’s degrees may be awarded (1) in the case of students who leave the Ph.D. program for any reason or (2) for continuing students who have advanced to candidacy and request the M.A. degree. The requirements for the M.A. are in accordance with the UCSB policy for Master’s Plan II, Comprehensive Examination Option or Project Option. To earn the Master’s degree, students must complete 36.0 units of coursework, including no fewer than 24 units, with a grade of B or better in graduate courses in the major subject or in graduate courses related to that subject, as approved by the departmental graduate advisor. The 36.0 units consist of 16.0 units of core courses, 16.0 units of elective courses and 4.0 units (four quarters) of DYN592 Seminar.

CORE COURSE REQUIREMENTS (16.0 units total)			
COURSE #	COURSE NAME	UNITS	GRADE
ECE 230A/ME 243A	Linear Systems I	4.0	
MATH 214A	Ordinary Differential Equations	4.0	
PSY 265	Computational Neuroscience	4.0	
PSY 269 or MCDB 251	Neuroanatomy Neurobiology I	4.0	

ELECTIVE UNITS		
At least 16 additional units of graduate coursework in dynamical neuroscience and in the student’s area of specialization, exclusive of courses numbered 596-599. These courses will be individually selected from the following list by the student under the advice and consent of his/her mentor and approved by the steering committee.		
CMPSC 225/ECE 205A	Information Theory	4.0
CMPSC 234	Randomized Algorithms	4.0
CMPSC 265	Advanced Topics in Machine Intelligence	4.0
CMPSC 281B/ECE 281B	Advanced Topics in Computer Vision	4.0
ECE 230B/ME 243B	Linear Systems II	4.0
ECE 235	Stochastic Processes in Engineering	4.0
ECE 236/ME 236	Nonlinear Control Systems	4.0
ECE 277	Pattern Recognition	4.0
MATH 214B	Chaotic Dynamics and Bifurcation Theory	4.0
MCDB 252	Neurobiology II: Molecular and Cellular Neurobiology	4.0
MCDB 253	Neurobiology III: Developmental Neurobiology	4.0
ME 215A	Applied Dynamical Systems I	3.0
ME 215B	Applied Dynamical Systems II	3.0
PHYS 219	Statistical Mechanics	4.0
PHYS 223C	Concepts and Phenomena of Condensed Matter Physics	4.0
PSTAT 207A	Statistical Theory	4.0

PSTAT 207B	Statistical Theory	4.0	
PSTAT 207C	Statistical Theory	4.0	
PSTAT 213A	Intro to Probability Theory and Stochastic Processes	4.0	
PSTAT 213B	Intro to Probability Theory and Stochastic Processes	4.0	
PSTAT 213C	Intro to Probability Theory and Stochastic Processes	4.0	
PSY 221E	Statistical Analysis of fMRI Data	4.0	
PSY 228	Perception	4.0	
PSY 231	Cognitive Neuroscience	4.0	
PSY 232	Neuroimaging	4.0	

Enrollment in the Dynamical Neuroscience Graduate Seminar for four quarters (4 units of DYNS 592)		
COURSE #	COURSE NAME	FULFILLED
DYNS 592	Graduate Seminar in Dynamical Neuroscience	

EXAM OPTION CAPSTONE REQUIREMENT
<p>Successful completion of (1) the written qualifying exam and (2) the section of the oral exam for advancement to candidacy that covers the student's area of specialization. Written and oral examinations are approved by a Master's committee consisting of three DYNS affiliated faculty.</p> <p>Written qualifying exam completed (mm/dd/yy): _____</p> <p>Oral exam completed (mm/dd/yy): _____</p> <p>M.A. Committee: Chair: _____</p> <p style="padding-left: 40px;">Member: _____</p>

PROJECT OPTION CAPSTONE REQUIREMENT

Students are required to produce a Master's Project that demonstrates the ability to contribute significant research in one of the DYNS neuroscience research areas, conducted under the supervision of a DYNS affiliated faculty advisor and with a Master's committee consisting of 2 to 4 DYNS affiliated faculty members.

M.A. Committee: Chair: _____

Member: _____

Member: _____

Member: _____

M.A. DEGREE REQUIREMENTS SATISFIED: _____
 Quarter/Year

DEPT GRADUATE ADVISOR SIGNATURE: _____

Print Name _____

FOR GRADUATE DIVISION USE ONLY

Residence requirement-minimum 3 quarters (<i>verify departmental requirement</i>)	
Required units completed	
Language requirement Satisfied (<i>if required</i>)	
No grades of I, NR, or NG	
3.0 or better GPA overall	
Registered quarter of degree or Filing Fee LOA: _____	
Master's Form I / COI and committee entered	
Master's Thesis date received (<i>signature page/e-filed and entered in SReg</i>): _____	
Master's Thesis Submission Fee: _	
ProQuest ID _____ Permission Ltrs uploaded?	
Master's Degree Awarded (mm/dd/yy)	