

USC SCHOOL	Keck School of Medicine
ACADEMIC DEPARTMENT	Neuroimaging and Informatics
GRADUATE PROGRAM	Master of Science in Neuroimaging and Informatics
POST CODE	1574
TERM EFFECTIVE DATE	Fall 2024

PROGRAM DESCRIPTION

A brief description of the graduate program.

In our one-year USC Master of Science degree program, students attend lectures and perform hands-on activities that teach them to acquire brain MRI data on our Siemens 3T and 7T scanners, analyze multimodal brain imaging data, design neuroimaging studies, perform computational modeling, use animal model techniques, and more.

COMMON BACHELOR DEGREE PROGRAM PATHWAYS

A list of common bachelor's degrees that undergraduate students pursue in advance of pursuing a progressive degree option with this graduate program. Some programs are restricted to certain majors while others are open to all students.

Neuroscience	Biology
Cognitive Studies	Biomedical Engineering
Psychology	Bioinformatics
Psychobiology	

PREPARATORY UNDERGRADUATE COURSES

A list of courses at the undergraduate level that prepare students for the graduate program. Required coursework is listed first, followed by recommended courses. If there are none, that is specified instead.

Dept. Prefix - Course #	Course Title	Required or Recommended	Units
None			

UNDERGRADUATE COURSES USED TO REDUCE GRADUATE LEVEL UNITS

A list of undergraduate level courses that may be used to reduce the number of graduate level units required for the graduate program. If there are none, that is specified instead.

Dept. Prefix - Course #	Course Title	Units
None		

CORE GRADUATE PROGRAM REQUIREMENTS (# units required)

A list of all required graduate courses for the graduate program. None of these courses may be used toward satisfying undergraduate degree requirements.

If special exceptions for any of these courses are made by the academic department, the course # is marked with an asterisk () and the exception is explained in the "Department Notes" section at the end of this course plan template.*

Dept. Prefix - Course #	Course Title	Units
NIIN 500	Neuroimaging and Systems Neuroscience	3
NIIN 510	Fundamentals of Human Neuroimaging	3
NIIN 530	Neuroimaging Data Acquisition with Magnetic Resonance Imaging	3
NIIN 540	Neuroimaging Data Processing Methods	3
NIIN 597	Current Topics in Neuroimaging Informatics	1
NIIN 520	Experimental Design for Neuroimaging	3
NIIN 550	Computational Modeling in Neuroimaging	3
NIIN 560*	Brain Architecture and Neuroanatomic Exploratory Techniques in Animal Models (Elective)	3
NIIN 570	Neuroimaging Genetics	3
NIIN 580*	Data Science in Neuroimaging (Elective)	3
NIIN 600	Science Communications	1

PRE-APPROVED ELECTIVE COURSEWORK

Elective coursework is approved at the discretion of the academic department. Note the following details about the total number and units required of elective coursework.

1	TOTAL ELECTIVE COURSES REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
3	TOTAL ELECTIVE UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE

TOTAL UNIT COUNTS AND REQUIRED GRADUATE UNITS

26	TOTAL UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
0	TOTAL GRADUATE UNITS THAT MAY BE WAIVED (IF ANY)
26	MINIMUM NUMBER OF GRADUATE UNITS THAT MUST BE AT THE 500 LEVEL OR ABOVE

NOTES FROM THE DEPARTMENT

This section highlights any unique considerations, exceptions, or requirements for the graduate program. If a program has specific restrictions (courses, majors, etc.), they are detailed below.

Students elect to take either 560 or 580 as their elective requirement.

Meredith N. Braskie, Ph.D. Assistant Professor of Neurology Director of Education, Stevens NeuroImaging and Informatics Institute	8/30/24 Date Approved

Authorizing Dean's Title