

**PROGRESSIVE DEGREE PROGRAM
COURSE PLAN TEMPLATE**

USC SCHOOL

Viterbi School of Engineering

ACADEMIC DEPARTMENT

Biomedical Engineering

GRADUATE PROGRAM

Master of Science in Biomedical Data Analytics

POST CODE

1809

TERM EFFECTIVE DATE

Spring 2021

PROGRAM DESCRIPTION

A brief description of the graduate program.

This program aims to introduce BME graduate students to the mathematical and computational methods of biomedical data analysis and to demonstrate the application of these methods to selected domains of high importance for Biomedical Engineering (e.g. biomedical signal and system analysis, medical imaging, clinical diagnostics and treatment monitoring).

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.

MATH – 245

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 not applicable, this section will be blank.

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	

**PROGRESSIVE DEGREE PROGRAM
COURSE PLAN TEMPLATE**

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
BME-511	Physiological Control Systems	4
BME-513	Introduction to Medical Product Regulation	4
BME-514	Physiological Signals and Data Analytics	4
BME-515	Data Analytics in Biomedical Engineering	4
BME-528	Medical Diagnostics, Therapeutics and Informatics Applications	4
Technical Electives*		8

PRE-APPRED 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.

8	TOTAL ELECTIVE UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
0	TOTAL ELECTIVE UNITS REQUIRED FOR THE PROGRESSIVE GRADUATE DEGREE

TOTAL UNIT COUNTS AND REQUIRED GRADUATE UNITS

28	TOTAL UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
8	TOTAL GRADUATE UNITS THAT MAY BE WAIVED (IF ANY)
20	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.

*PDP students are not required to complete technical elective courses.

Kelly Goulis

Authorizing Dean's Name

April 7, 2021

Date Approved

Senior Associate Dean, Viterbi School of Engineering

Authorizing Dean's Title