PROGRESSIVE DEGREE PROGRAM
COURSE PLAN TEMPLATE

USC SCHOOL   Viterbi School of Engineering

ACADEMIC DEPARTMENT   Biomedical Engineering

GRADUATE PROGRAM   Master of Science in Medical Imagining & Imaging Informatics

POST CODE   1992

TERM EFFECTIVE DATE   Fall 2024

PROGRAM DESCRIPTION
A brief description of the graduate program.

This program has been designed for completion in one calendar year by students with solid engineering backgrounds and does not require a thesis. This degree will prepare you for a career in any of the following: medical imaging and health information industry, military healthcare system, general healthcare industry including hospital enterprise, HMO, and private enterprise. This program is also suitable for you if you intend to continue in graduate school or medical school.

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
BME – 403	Physiological Systems	X	4

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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
BME – 403	Physiological Systems	4
BME – 413	Bioengineering Signals and Systems	4

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-513*	Introduction to Medical Product Regulation	4
BME-525	Technology Development and Implementation	4
BME-527	Advanced Topics in Biomedical Systems	4
BME-528	Medical Diagnostics, Therapeutics and Informatics Applications	4
EE-569	Introduction to Digital Image Processing	4
Technical Electives**	500-level or above	8

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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**
4	**TOTAL ELECTIVE UNITS REQUIRED FOR THE PROGRESSIVE GRADUATE DEGREE**

TOTAL UNIT COUNTS AND REQUIRED GRADUATE UNITS
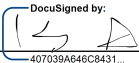
28	**TOTAL UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE**
8	**TOTAL GRADUATE UNITS THAT MAY BE WAIVED (IF ANY)**
20	**MINIMUM NUMBER OF GRADUATE UNITS THAT MUST BE AT THE 500 LEVEL OR ABOVE**

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.

*If the UG student has taken BME-413, then BME-513 can be waived.

**If UG student has taken BME-403, then BME-501 can be waived as a technical elective.

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Authorizing Dean's Name	**Date Approved**

Kelly Goulis	Senior Associate Dean

Authorizing Dean's Title

Last Revised November 2024