

**PROGRESSIVE DEGREE PROGRAM
COURSE PLAN TEMPLATE**

USC SCHOOL	Viterbi School of Engineering
ACADEMIC DEPARTMENT	Daniel J. Epstein Department of Industrial & Systems Engineering
GRADUATE PROGRAM	MS HSME (Health Systems Management Engineering)
POST CODE	1360
TERM EFFECTIVE DATE	Fall 2023

PROGRAM DESCRIPTION

A brief description of the graduate program.

The Master of Science in Health Systems Management Engineering prepares students for leadership positions in the healthcare industry. Hospitals and the healthcare system are in desperate need of redesign from a cost, quality and productivity standpoint. Employers are seeking the skills offered in this degree. Jobs are often in management, consulting, performance improvement or technology. Healthcare is the largest industry and needs people able to help improve operations. You will learn how healthcare works and how to make it better for everyone by doing projects at hospitals and clinics. Courses are from the Daniel J. Epstein Department of Industrial and Systems Engineering and the Keck School of Medicine.

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.

Engineering	
Applied Social Sciences	

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
	Calculus I, Calculus II, Calculus III	Required	
	Linear Algebra	Required	
ISE-225	Engineering Probability, Statistics	Required	

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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
	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
ISE 505	Modeling for Health Policy and Medical Decision Making	4
ISE 508	Healthcare Operations Improvement	4
ISE 509	Practicum in Health Care Systems	4
ISE 504 ISE 564	Management of Change in Health Care Systems or Performance Analysis	4
PM 508	Health Service Delivery in the U.S.	4
	Total Units	20

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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.

<input type="text" value="4"/>	TOTAL ELECTIVE UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
<input type="text" value="0"/>	TOTAL ELECTIVE UNITS REQUIRED FOR THE PROGRESSIVE GRADUATE DEGREE

TOTAL UNIT COUNTS AND REQUIRED GRADUATE UNITS

<input type="text" value="28"/>	TOTAL UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE
<input type="text" value="8"/>	TOTAL GRADUATE UNITS THAT MAY BE WAIVED (IF ANY)
<input type="text" value="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.

Authorizing Dean's Name

Date Approved

Authorizing Dean's Title

**PROGRESSIVE DEGREE PROGRAM
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**Master's Degree – Health Systems Management Engineering
Progressive Degree Option**

The Master of Science in Health Systems Management Engineering prepares students for leadership positions in the healthcare industry. Hospitals and the healthcare system are in desperate need of redesign from a cost, quality and productivity standpoint. Employers are seeking the skills offered in this degree. Jobs are often in management, consulting, performance improvement or technology. Healthcare is the largest industry and needs people able to help improve operations. You will learn how healthcare works and how to make it better for everyone by doing projects at hospitals and clinics. Courses are from three schools; the Daniel J. Epstein Department of Industrial and Systems Engineering, the Keck School of Medicine of USC and the USC Sol Price School of Public Policy.

Required Courses – (20 units)

ISE 505 Modeling for Health Policy and Medical Decision Making (4)

ISE 508 Health Care Operations Improvement (4)

ISE 509 Practicum in Health Care Systems (4)

ISE 504 Management of Change in Health Care Systems (4) or ISE 564 Performance Analysis (4)

PM 508 Health Service Delivery in the U.S. (4)

***Total Units Required for the Health Systems Management Engineering PDP degree: 20**