Class of 2024 Graduation Requirements

Master of Science in Regulatory Affairs (MSRA)

Keck Graduate Institute School of Applied Life Science Irell and Manella Graduate School of Biological Sciences at City of Hope

Students in the MSRA program must complete 60.0 credits over two years of study. Of the 60.0 total credits, students must complete 30.0 credits of the Core, Professional Development, and Advanced Technical courses and 30.0 credits of the Master's Capstone Projects.

Program Requirements

Core Requirements	Credits
Core Science (C) Professional Development (PD) Advanced Technical (AT)	30.0
Master's Capstone Projects	30.0
Subtotal	**60.0**

Curriculum

All students must complete the following courses: Core Science (C), Professional Development (PD), Advanced Technical (AT), Independent Research, and Capstone Projects to graduate with the MSRA degree. Capstone project contracts must be submitted during April/May of the first year of the studies. Please refer to the RES 6250 Master's Capstone syllabus for more information. Most courses are held at KGI. Courses marked in red take place at the City of Hope.

1st Year Fall Core Courses	Credits
SCI 5300 Pharmaceutical Discovery (C)	1.5
SCI 5310 Pharmaceutical Development (C)	1.5
BUS 5000 Intro to Bioscience Industries (C)	3.0
MATH 5020 Clinical Biostatistics (AT)	3.0
REG 5000 Intro to US Food and Drug Law (C)	1.5
REG 6110 Drug and Biologic Regulations (AT)	1.5
REG 6120 Medical Device Regulations (AT)	1.5

1st Year Spring Core Courses	Credits
SCI 6310 Biotechnology-Based Therapeutics (AT)	3.0
ENG 5160 Introduction to Bioprocessing (AT)	1.5
REG 5310 Biopharmaceutical Quality System Regulation and Controls (AT)	1.5
REG 6020 Current Issues for FDA Regulated Products (AT)	1.5
REG 6510 Design of Clinical Trials (AT)	1.5
REG 6520 Clinical Trial Design and Literature Evaluation (AT)	3.0
RES 6000 Independent Study	3.0

1st Year Summer	Credits
RES 6250 Master's Capstone Project	0.0

2nd Year Fall Core Courses	Credits
RES 6250 Master's Capstone Project	15.0
PDEV 5100 Professional Development (PD)	0.0

2nd Year Spring Core Courses	Credits
RES 6250 Master's Capstone Project	15.0
PDEV 5220 Healthcare/Life Sciences Industry Ethics (PD)	1.5