Science Management and Leadership (MS)

This program is offered by the College of Arts & Sciences. It is available online, at the St. Louis home campus and at the Westport campus.

Program Description

The master of science (MS) in science management and leadership is designed for professional scientists and engineers who are advancing in their careers in management and leadership roles. The program aims to provide these professionals with competencies in project management, leadership, regulatory and quality affairs, intellectual property, business law, finance, marketing, communications and ethics. The program will provide opportunities for mentoring and networking experiences.

Learning Outcomes

Upon completion of the program, students will be able to:

- Compose and present written and verbal information clearly and effectively to a variety of audiences.
- Discuss the role of ethical standards in business and leadership.
- Demonstrate the ability to work in teams, resolve conflict and lead to achieve common goals.
- Formulate the role of marketing, finance and budgeting in the process of product development for science-based operations.
- Formulate the role of intellectual property in science-based operations.
- Construct and evaluate project plans in accordance with regulatory and qualitative affairs standards for science-based operations.

Program Curriculum

The 36 credit hours required for the MS in science management and leadership must include the following courses:

- SCML 5050 Communication for Professional Science Management and Leadership (3 hours)
- MNGT 5590 Organizational Behavior (3 hours)
- SCML 5590 Ethics and Social Responsibility in Science Management and Leadership (3 hours)
- PATA 5120 Foundations in Intellectual Property Law (3 hours)
- SCML 5700 Marketing and Comparative Analysis for Science Management and Leadership (3 hours)
- BUSN 5200 Basic Finance for Managers (3 hours)
- SCML 5800 Project Management (3 hours)
- SCML 5850 Regulatory and Qualitative Affairs for Science Management and Leadership (3 hours)
- SCML 6000 Practical Application in Science Management and Leadership (3 hours)

In addition, the student chooses the remaining required credit hours from elective courses offered in this major and/or from the program curricula of other majors.

Dual Degree Option: MBA/MS in Science Management and Leadership

48 to 51 Credit Hours

Requirements for a dual degree with the MBA program generally include the required MBA courses (33 hours) and the required coursework in the additional degree program, except where noted below. If BUSN 5000 has been waived, the required hours are reduced by 3 credits and the BUSN 5000 course does not require a substitution.

Upon completion of all required credit hours, two separate diplomas are issued at the same time. The two degrees cannot be awarded separately or sequentially under this arrangement.

- BUSN 5000 Business (3 hours)
- MBA 5010 Value Creation (3 hours)
- MBA 5020 Quantitative Methods for the MBA (3 hours)
- MBA 5030 Market Analysis and Business Planning (3 hours)
- MBA 5100 Adding Value through Human Capital (3 hours)
- MBA 5200 The Financial Value of Capital Projects (3 hours)
- MBA 5300 Providing Value to Customers (3 hours)
- MBA 5400 The Supply Chain and Business Processes (3 hours)
- MBA 5500 Information Support for Decision Making (3 hours)
- MBA 5810 Cases in Value Creation (3 hours)
- MBA 5920 Walker Consulting Project: Adding Value to Organizations (3 hours)
- SCML 5050 Communication for Professional Science Management and Leadership (3 hours)
- SCML 5700 Marketing and Comparative Analysis for Science Management and Leadership (3 hours)
- PATA 5120 Foundations in Intellectual Property Law (3 hours)
- SCML 5800 Project Management (3 hours)
- SCML 5850 Regulatory and Qualitative Affairs for Science Management and Leadership (3 hours)
- SCML 6000 Practical Application in Science Management and Leadership (3 hours)

Sequential Degree in Science Management and Leadership

A student who holds an MA, MS or an equivalent graduate degree from Webster University or another regionally accredited college or university (or its international equivalent) may earn a sequential MS in science management and leadership from Webster University. Transfer credit may not be applied toward the sequential MS.

The student must complete the 27 credit hours of required core courses to earn the sequential MS in science management and leadership. If the student has previously completed or received credit for any of these courses, appropriate substitutes will be approved by the Biological Sciences department.

Admission

Students who are interested in applying to this degree program should also see the Admission section of this catalog for general requirements.

Send all admissions materials to:

Office of Admission
Webster University
470 E. Lockwood Ave.
St. Louis, MO 63119

Advancement to Candidacy

Students are admitted to their graduate program upon completion of all admission requirements. Students are advanced to candidacy status after successfully completing 12 credit hours of graduate credit, with grades of B- or better. In the MBA program and other specialized programs, courses required as prerequisites are.
to the program do not count toward the 12 credit hours required for advancement.