New Minor:  
Scientific Leadership and Practice

Available for any Mason Student

Science Literacy Core: Take both courses from the following (6cr)
- COS 300 Professional Preparation for STEM Disciplines*
- COS 400 Problem Solving and Leadership in STEAM**

Computational Thinking: Choose one course from the following (3cr)
- CDS 301 Scientific Information and Data Visualization
- CDS 302 Scientific Data and Databases
- GGS 110 Introduction to Geoinformation Technologies
- GGS 311 Introduction to Geographic Information Systems
- PHYS 251 Introduction to Computer Techniques in Physics

Quantitative Reasoning: Choose one course from the following (3cr)
- MATH 111 Linear Mathematical Modeling
- MATH 113 Analytical Geometry and Calculus I
- MATH 125 Discrete Mathematics I

Leadership or Communication: Choose one course from the following (3cr)
- INTS 204 Leadership Theory and Practice
- INTS 406 Global Leadership
- INTS 435 Leadership in a Changing Environment
- CONF 300 Conflict Resolution Techniques & Practice
- COMM 302 Media Theory
- COMM 304 Foundations of Health Communication
- COMM 320 Business and Professional Communication
- ENGH 376 Rhetoric and New Media
- ENGH 388 Professional and Technical Writing
- ENGH 489 Proposal Writing and Development
- EVPP 429 Environmental Science Communication

Internship Course: Choose one course from the following (3cr)
- ASTR 409 Astronomy Internship
- CLIM 409 Research Internship
- GEOL 480 Internship
- CDS 491 Internship
- EVPP 494 Internship
- FRSC 406 Forensic Internship
- GGS 480 Internship

Minor Requirements
Total credits: 16–20
Eight credits of coursework must be unique to the minor.

COS 300*
Professional Preparation for STEM Disciplines
Prepares any undergraduate major (not just science) that is interested in enhancing their competences in STEM writing, technical communication and social media skills. Topics covered include drafting and revising papers, dissecting scientific journal articles, communicating science to non-scientists, creating a podcast, writing grant proposals, and preparing CVs, resume and “elevator pitches.” By the end of the course, the student will not only be familiar but more confident in effectively disseminating information in their own field of interest.

COS 400**
Problem Solving and Leadership in STEAM
In this course, participants will experience a hands-on and design-thinking approach to incorporating global problem solving principles into the STEAM (Science, Technology, Engineering, Arts and Mathematics) disciplines and consider implications for application in research and development. This course consists of face to face meetings, follow up webinars and a collaborative project.

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College of Science