ENGINEERING MANAGEMENT

https://www.uvm.edu/cems

OVERVIEW

The Master of Science in Engineering Management (M.S. in EM) is a professional degree with optional disciplinary tracks, and is available as a regular coursework only M.S., and project-based M.S., as well as an Accelerated Master’s Program for undergraduates majoring in Engineering, Engineering Management, or Computer Science. Students may have a B.S. in Engineering from an ABET-accredited institution, a B.S. in Engineering Management or Computer Science, an unaccredited B.S. in Engineering, or physical sciences. Those without an accredited degree may have to take additional courses to achieve equivalency of background.

DEGREES

Engineering Management AMP (http://catalogue.uvm.edu/graduate/engineeringmanagement/engineeringmanagementamp/)
Engineering Management M.S. (http://catalogue.uvm.edu/graduate/engineeringmanagement/engineeringmanagementms/)

FACULTY

Burkman, Kenneth\(^P\); Senior Lecturer, Department of Engineering Management; MS, Naval Postgraduate School
Buzas, Jeff Sandor; Professor, Department of Mathematics and Statistics; PHD, North Carolina State University Raleigh
Dewoolkar, Mandar M.; Professor, Civil and Environmental Engineering; PHD, University of Colorado Boulder
Dubief, Yves C.; Associate Professor Department of Mechanical Engineering; PHD, Institut National Polytechnique de Grenoble
Frolik, Jeff L.; Professor, Department of Electrical and Biomedical Engineering; PHD, University of Michigan Ann Arbor
Huston, Dryver R.; Professor, Department of Mechanical Engineering; PHD, Princeton University
Lucas, Marilyn T.; Associate Professor, Grossman School of Business; PHD, University of Illinois Urbana-Champaign
Monsen, Erik; Associate Professor, Grossman School of Business; PHD, University of Colorado at Boulder

\(^P\) Practitioner-based appointment

Courses

EMGT 201. Engineering Project Management. 3 Credits.
Principles of project management on designing, building/ manufacturing engineering facilities, processes, products and structures; metrics for managing quality, schedule, and financial performance of projects; services and product procurement; project financial management; legal and insurance aspects. Prerequisites: Minimum Senior standing in Engineering.

EMGT 254. Optimization in Ops Research. 3 Credits.
Students develop and refine their ability to build optimization models for a wide range of business and engineering decisions. Provides a sound conceptual understanding of mathematical optimization and learn techniques used for solving real-world problems. Emphasizes model formulation and the mathematics of commonly used algorithms. Prerequisites: MATH 121; MATH 122 or MATH 124.

EMGT 391. Master’s Thesis Research. 1-18 Credits.

EMGT 392. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

EMGT 396. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.