QUEST

CURRICULUM AND COURSEWORK

Information for Cohorts 28 and below
**QUEST’s 5 Course Curriculum**

**Three Required Courses**
*These courses are required for all QUEST students and are cohort-based courses*
- **BMGT/ENES 190H**: Introduction to Design and Quality (4 credits)
- **BMGT/ENES 390H**: Systems Thinking for Managerial Decision Making (3 credits)
- **BMGT/ENES 490H**: QUEST Consulting and Innovation Practicum (4 credits)

**Two Elective Courses***
*QUEST students take any two of the approved electives from the below list of courses:*
- **QUEST-only electives**
  - BMGT/ENES 397: Mentoring Design and Quality Teams
  - BMGT438A/ENES 489A: Applied Quantitative Analysis
  - BMGT 438G/ENES 489Q: Design and Innovation in Silicon Valley
  - BMGT 438Q/BMGT 438K/BMGT 438L: Doing Business in Asia
  - BMGT 438M: Leading Innovation and Design in a Cross-Cultural Setting (QUEST to Spain)
  - BMGT/ENES 491: Defining Consulting and Innovation Projects
- **Other electives**
  - BIOE 485: Capstone Design I Entrepreneurship, Regulatory Issues, and Ethics
  - BMGT 332: Operations Research for Management Decisions
  - BMGT 352: Customer Centric Innovation
  - BMGT 385: Operations Management
  - BMGT 403: Systems Analysis and Design
  - BMGT 434: Analytics Consulting: Cases and Projects
  - BMGT 452: Marketing Research Methods
  - BMGT 485: Project Management
  - BMGT 487: Six Sigma Strategy and Methods
  - BMGT498L: Innovo Consulting Practicum: Transform Learning
  - CMSC 320: Introduction to Data Science
  - CMSC 434: Introduction to Human-Computer Interaction
  - CMSC 435: Software Engineering
  - ENCE 320: Introduction to Project Management
  - ENCE 325: Introduction to Construction Project Management
  - ENEE 408G: Multimedia Signal Processing
  - ENEE 605: Design and Fabrication of Micro-Electro-Mechanical Systems
  - ENES 460: Fundamentals of Technology Start-Up Ventures
  - ENES 462: Marketing High-Technology Products and Innovations
  - ENES 489P: Hands-On Systems Engineering Projects
  - ENES 499: Senior Projects in Engineering
  - ENME 371: Product Engineering and Manufacturing
  - ENME 421: Engineering Design Ideation
  - ENME 426: Production Management
  - ENME 464: Cost Analysis for Engineers
  - ENME 466: Lean Six Sigma
  - ENME 489Q: Managing for Innovation and Quality

*This list is current as of Fall 2017 and is subject to change. Students are welcome to nominate other courses to be added to the list; the QUEST Curriculum Review Committee will review and approve nominations. To nominate a course, please contact Dr. Pamela Armstrong at parmstro@rhsmith.umd.edu.*

**If interested in viewing any of the syllabi for the courses above, please contact Dr. Pamela Armstrong at parmstro@rhsmith.umd.edu.**