QUEST

CURRICULUM AND COURSEWORK

Information for Current and Prospective Students
The QUEST Curriculum
Students in QUEST participate in curricular and co-curricular programming. Both classroom and outside of the classroom learning are instrumental in helping undergraduates to develop and improve their professional and personal capabilities.

QUEST 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 478A: Applied Quantitative Analysis
- BMGT 438G/ENES 489Q: Design and Innovation in Silicon Valley
- BMGT 438Q: Doing Business in Asia
- 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
- BMGT408D: Emerging Topics in Information Systems; Google Challenge and Analytics
- BMGT 434: Introduction to Optimization
- BMGT 452: Marketing Research Methods
- BMGT 485: Project Management
- BMGT 487: Six Sigma Strategy and Methods
- CHBE 444: Process Engineering Economics and Design I
- CMSC 434: Introduction to Human-Computer Interaction
- CMSC 435: Software Engineering
- CMSC 436: Programming Handheld Systems
- ENCE 320: Introduction to Project Management
- ENEE 408G: Multimedia Signal Processing
- ENES 460: Fundamentals of Technology Start-Up Ventures
- ENES 462: Marketing High-Technology Products and Innovations
- ENES 489P: Hands-On Systems Engineering Projects
- ENME 371: Product Engineering and Manufacturing
- ENME 421: Engineering Design Ideation
- ENME 426: Production Management
- ENME 466: Lean Six Sigma
- ENME 489Q: Managing for Innovation and Quality

*This list is current as of Spring 2016 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. Jeffrey Herrmann at jwh2@umd.edu.