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 two approved electives from the below list of courses:**

- 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 397: Mentoring Design and Quality Teams
- BMGT408D: Emerging Topics in Information Systems; Google Challenge and Analytics
- BMGT 434: Introduction to Optimization
- BMGT 438G: Special Topics in Operations Management: Design and Innovation in Silicon Valley
- BMGT 438Q: Doing Business in Asia (QUEST study abroad course)
- BMGT 485: Project Management
- BMGT 487: Six Sigma Strategy and Methods
- BMGT491: Defining Consulting and Innovation Projects
- 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 489P: Hands-On Systems Engineering Projects
- ENME 371: Product Engineering and Manufacturing
- ENME 426: Production Management
- ENME 466: Lean Six Sigma
- ENME 489Q: Managing for Innovation and Quality

*This list is current as of Fall 2015 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.
<table>
<thead>
<tr>
<th>QUEST Course Plan by Cohort</th>
<th>Fall 2013</th>
<th>Spring 2014</th>
<th>Fall 2014</th>
<th>Spring 2015</th>
<th>Fall 2015</th>
<th>Spring 2016</th>
<th>Fall 2016</th>
<th>Spring 2017</th>
<th>Fall 2017</th>
<th>Spring 2018</th>
<th>Fall 2018</th>
<th>Spring 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q21</td>
<td>190H</td>
<td>390H</td>
<td>490H</td>
<td>grad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q22</td>
<td>190H</td>
<td>390H</td>
<td>490H</td>
<td>grad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q23</td>
<td>190H</td>
<td>390H</td>
<td>490H</td>
<td>grad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q24</td>
<td>190H</td>
<td>390H</td>
<td>490H</td>
<td>grad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q25</td>
<td>190H</td>
<td>390H</td>
<td>490H</td>
<td>grad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q26</td>
<td>190H</td>
<td>390H</td>
<td>490H</td>
<td>grad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q27</td>
<td>190H</td>
<td>390H</td>
<td>490H</td>
<td>grad</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>