Engineering (ENG) - Mechanical

To continue to ENG from CGS students must have:
- Completed all CGS core courses and appropriate electives
- Cumulative GPA ≥ 2.00

Sample Pathway

<table>
<thead>
<tr>
<th>Gap Semester</th>
<th>Recommended external courses: Calculus I (equivalent to CAS MA123) and General Chemistry I (equivalent to CAS CH101)</th>
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<tr>
<td>Semester I</td>
<td>Semester II</td>
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| Freshman Year| CGS Core  
ENG EK102 (Introduction to Linear Algebra for Engineers)  
ENG EK132 (Introduction to Engineering) (2cr)  
CGS Core (London Semester) |
| Summer Term  | ENG EK127 (Engineering Computation)  
CAS MA124 (Calculus II) |
| Sophomore Year| CGS Core*  
CAS MA225 (Multivariate Calculus)  
CAS PY211 (General Physics I)  
ENG EK156 (Design and Manufacture) (2cr)  
CGS Core*  
CAS PY212 (General Physics II)  
CAS MA226 (Differential Equations)  
ENG EK210 (Introduction to Engineering Design) (2cr) |
| Summer Term  | ENG EK301 (Engineering Mechanics I)**  
ENG EK307 (Electric Circuits)** |
| Junior Year   | ENG ME359 (Introduction to CAD and Machine Components)  
ENG ME305 (Mechanics of Materials)  
ENG ME304 (Energy and Thermodynamics)  
ENG ME303 (Fluid Mechanics)  
ENG ME360 (Product Design)  
ENG ME302 (Engineering Mechanics II)  
ENG ME306 (Introduction to Materials Science)  
ENG ME419 (Heat Transfer)  
ENG ME460 (Electro-Mechanical Systems Design)  
ENG ME310 (Instrumentation and Theory of Experiments)  
ENG ME461 (Mechanical Engineering Capstone Experience)  
ENG Natural Science Elective |
| Senior Year   | Advanced Elective  
Advanced Elective  
ENG ME460 (Electro-Mechanical Systems Design)  
ENG ME310 (Instrumentation and Theory of Experiments)  
Advanced Elective  
Advanced Elective  
ENG ME461 (Mechanical Engineering Capstone Experience)  
ENG Natural Science Elective |

*Prospective majors in good standing should consult with their CGS academic advisor about possible CGS NS201/NS202 exemptions.  
**Usually 12-week courses

Note: Prior approval must be granted for all external coursework.

For more information about the program, please contact Ruthie Jean: ruthiej@bu.edu, 617-353-6447