# STEM & INNOVATION ACADEMY GUIDE

Solving the world's looming challenges will require creative, analytical problem solvers committed to understanding how things work today and imagining what the future could look like. The STEM and Innovation Academy will allow students interested in traditional engineering disciplines and budding entrepreneurs to explore career interests while honing skills. Gain knowledge through targeted programming, and connect with employers and alumni in the field.

## FIRST YEAR

### Fall
- Read "Smart People Should Build Things" and participate in book discussion.
- Draft your first professional resume.
- Complete Careers 101.
- Begin honing presentation and storytelling skills by joining Toastmasters or similar group.

### Spring
- Register for freshmen exploration classes such as "BME in the Real World."
- Attend the Engineering School picnics and cookouts.
- Join an engineering club.
- Secure an internship or research position for the summer.
- Practice your pitch.

## SECOND YEAR

### Fall
- Become a maker: create or contribute to coding, research, robotics, etc.
- Research the culture of startups vs. large corporations.
- Look for research opportunities that match your interests.
- Participate in a Hackathon.
- Acquire communication and teamwork skills by participating in student organizations.

### Spring
- Attend monthly meet-and-greets with local startups.
- Create your technical resume.
- Practice in technical interviews.
- Practice talking about your technical work to a non-technical audience.
- Explore whether you are interested in a traditional engineering career or an alternative such as finance, consulting, or entrepreneurship.

## ALL YEARS

- Participate in Book Read: "Smart People Should Build Things."
- Attend Career Center's STEM & Innovation Academy Week (February).
- Attend JHU Career Fair.
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JUNIOR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Attend Baltimore Innovation Week.</td>
<td>Attend the Columbia Career Fair in NYC.</td>
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<tr>
<td>Create a list of ten companies you would</td>
<td>Create a business plan.</td>
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<tr>
<td>like to work for.</td>
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<tr>
<td>Create and launch code into the</td>
<td>Pursue a paid summer internship.</td>
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<tr>
<td>marketplace</td>
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<tr>
<td>Attend the annual Aerospace Affinity</td>
<td>Work on technical resume and fit/technical</td>
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<tr>
<td>Group event on campus.</td>
<td>interviews.</td>
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<tr>
<td>Attend five or more employer information</td>
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<tr>
<td>sessions.</td>
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SENIOR

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<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Register for senior design class.</td>
<td>Attend NET/Work B-more Tech jobs Fair.</td>
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<tr>
<td>Hold five or more informational interviews with alumni and employers.</td>
<td>Continue to build your network.</td>
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<tr>
<td>Apply for full-time opportunities.</td>
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Sample Student Groups

- Baja SAE
- Hopkins Medical Device Network
- Society of Women Engineers
- National Society of Black Engineers
- Hopkins Robotics

Coursework

- Some suggested courses include:
  - Project Management
  - Oral Communications
  - Scientific Writing
  - Professional Communication for Science, Business, and Industry

These activities, classes, student clubs, and events are suggestions for students, not requirements. To determine your academic plan, please talk with your advisor.