

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

Fall

- Attend Baltimore Innovation Week.
- Create a list of ten companies you would like to work for.
- Create and launch code into the marketplace
- Attend the annual Aerospace Affinity Group event on campus.
- Attend five or more employer information sessions.

Spring

- Attend the Columbia Career Fair in NYC.
- Create a business plan.
- Pursue a paid summer internship.
- Work on technical resume and fit/technical interviews.

SENIOR

Fall

- Register for senior design class.
- Hold five or more informational interviews with alumni and employers.
- Apply for full-time opportunities.

Spring

- Attend NET/Work B-more Tech jobs Fair.
- Continue to build your network.

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.