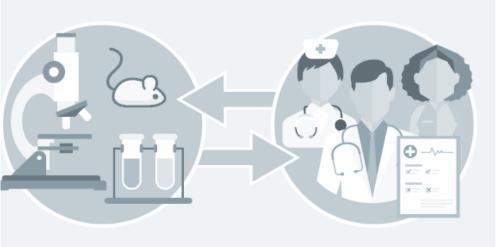
Integrated Health Sciences & Research (IHSR) Overview





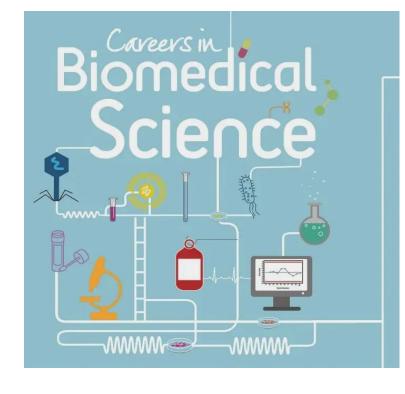


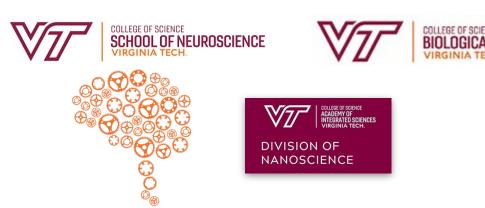




What is the Integrated Health Science & Research (IHSR) Program?

- A multi-year undergraduate program offered on the VT Health Science & Technology Campus in Roanoke.
- Main goals:
 - Attract VT undergraduates to engage in <u>experiential</u> <u>learning</u> & <u>research opportunities</u> at world-class facilities at FBRI.
 - Offer <u>coursework & clinical exposure</u> that integrates biomedical science and clinical perspectives.
 - Deliver tailored professional development and career mentoring to <u>boost competitiveness</u> for graduate program and employment applications.

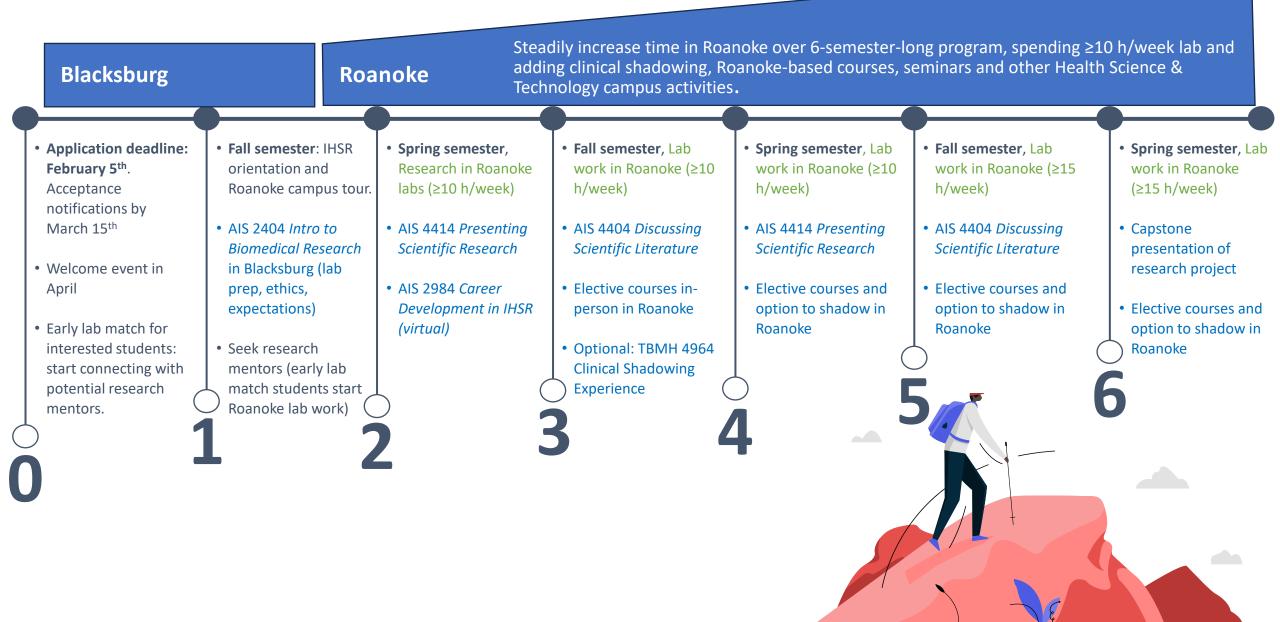




Who are ideal students for IHSR?

- <u>Freshman</u> and <u>sophomore</u> VT undergraduates interested in biomedical research and a career in health professions, clinical or translational research.
- Current IHSR students major in Biological Sciences, Nanoscience, Nanomedicine, and Neuroscience.
- We welcome students from all majors.

Timeline



Integrated Health Science & Research (IHSR) Program Courses:



Introductory Coursework

AIS 2404 Introduction to Biomedical Research (learn about research areas at FBRI; meet faculty to identify research mentor)

AIS 4044 **IHSR Scientific Literature** (basics of literature searches, reading and evaluating scientific papers, and linking basic science papers to clinical issues)

AIS 4414 IHSR Presenting Scientific

Research (basics of written, oral and other presentation formats; students begin giving presentations on their lab work)



Experiential Learning

AIS 2994/4994 **Research** in mentor lab (3 credits/semester in initial semesters with increasing number of credits in later semesters)

TBMH 4964 Field Work/Practicum (Clinical Shadowing)



<u>Clinically-focused classwork and</u> professional development

AIS 2984, **IHSR Career Development** (New virtual course offered in Spring 2024)

AIS 4984, Clinical and Scientific Perspectives on Addiction (New in Spring 2024)

AIS 4984 **Radiation Biology** (New in Spring 2024)

AIS 4984 **Pathophysiology** (New in Spring 2024)

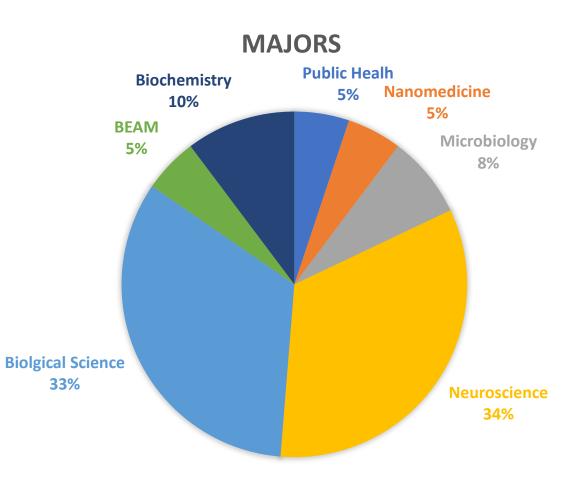
• Required of all IHSR students

Electives will be offered in-person in Roanoke; we will work with departments to request permission to incorporate classes into graduation checksheets as 'restricted electives'

Current IHSR students



	Current # IHSR students
Sophomore	14
Junior	17
Senior	6
	37





Recruitment Plans for 2024-25 Cohort

- Plan to recruit 20 students for the next cohort.
- Application site opens Dec 1st (deadline February 5, 2024)
- Will offer info sessions in January.

VIRGINIA TECH. Image: APPLY VISIT GIVE SHOP V Resource

Integrated Health Sciences and Research Program

An immersive undergraduate research experience with world-class faculty from the Fralin Biomedical Research Institute at VTC and the College of Science at Virginia Tech's Health Sciences and Technology Campus in Roanoke. An academic program of the College of Science.

https://hst.vt.edu/campus/IHSR.html

Questions?





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