

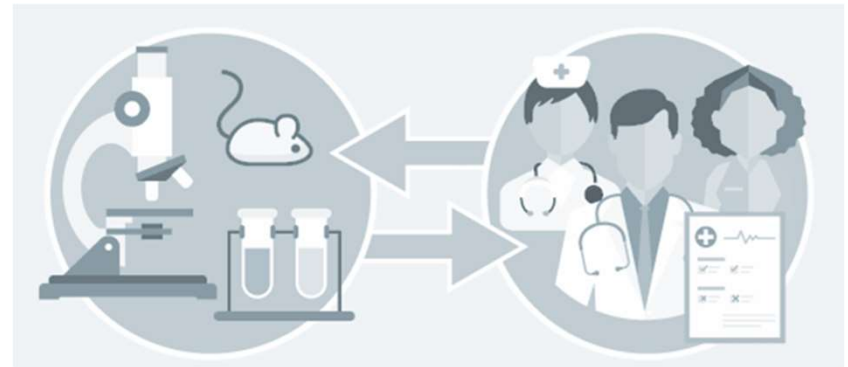
# Integrated Health Sciences & Research Program (IHSR) Overview



<https://fbri.vtc.vt.edu/education/undergraduate-research/IHSR.html>

# Integrated Health Science & Research (IHSR) Program Goals:

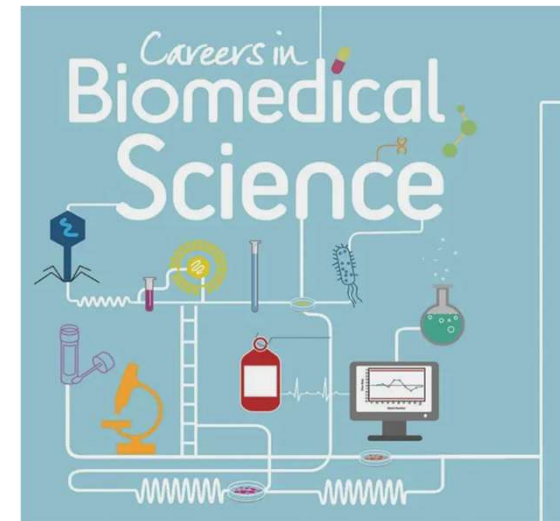
- Increase experiential learning & research opportunities for VT undergraduates on the Roanoke Health Science & Technology campus.
- Offer didactic coursework in Roanoke that integrates biomedical science, clinical perspectives and experiences.
- Create outstanding professional development, tailored mentoring, career/post-grad preparation
- Increase competitiveness for VT students' graduate program applications



# Integrated Health Science & Research (IHSR) Program

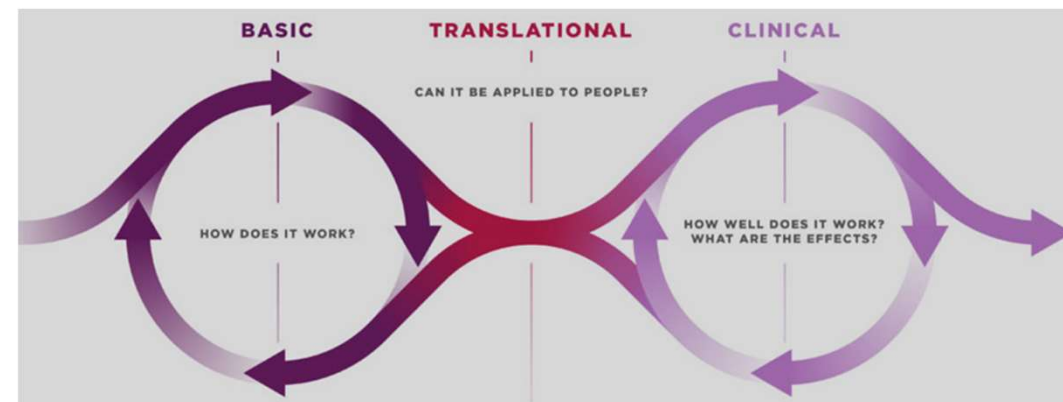
## Target Audiences:

- VT undergraduates interested in careers in biomedical science & health professions.
- Pilot cohort will include VT College of Science preferentially students majoring in: Biological Sciences, Nanoscience/Nanomedicine, and Neuroscience, including students ***already participating*** in labs at FBRI.
- Future goal to expand the program to attract other majors in College of Science and beyond.



# Integrated Health Science & Research (IHSR) Program Structure:

- 3-year program
- Semester 1: 'On-Ramp' in Blacksburg:
  - *Intro to Biomedical Research* seminar (lab preparatory course, lab safety, ethics, expectations)
  - Lab Bootcamp (technique training)?
  - Students matched to Roanoke-based faculty/labs
- Semester 2 to 4: Partially in Roanoke campus
  - Minimum 10 hours of research per week (3 credits)
  - Seminar series where students present/discuss their research
- Semesters 5 and 6: Full time in Roanoke campus:
  - Minimum 20 hours of research per week (6 credits)
  - Didactic classes offered in Roanoke focusing on biomedical / health science & translational medicine.
  - Professional development and tailored mentoring to guide graduate program application prep
  - Shadowing and other clinical experiences



# Integrated Health Science & Research (IHSR)

## Curriculum Overview

Sophomore Fall	Sophomore Spring
1 cr <a href="#">IHSR 2095</a> Intro to Biomedical Research (Seminar)	1 cr <a href="#">IHSR 2096</a> Seminar 3 cr XXXX 2994 Research Credits
Junior Fall	Junior Spring
1 cr <a href="#">IHSR 3095</a> Journal Club 3 cr XXXX 4994 Research Credits	1 cr <a href="#">IHSR 3096</a> Seminar 3 cr XXXX 4994 Research Credits
Senior Fall	Senior Spring
1 cr <a href="#">IHSR 4004</a> Exploring Biomedical Careers 1 cr <a href="#">IHSR 4095</a> Journal Club 6 cr XXXX 4994 Research Credits 0-3 cr TBMH 4964 Shadowing 3-6 cr Coursework	1 cr <a href="#">IHSR 4096</a> Seminar 6 cr XXXX 4994 Research Credits 0-3 cr TBMH 4964 Shadowing 3-6 cr Coursework

# Where Do Courses Fit Into My Major?

- Biological Sciences (with or without biomedical option)
  - Intent is for courses to count as Biological/Biomedical Electives
  - Research credits would count as BIOL 4994 (3-4 credits depending on checksheet)
- Neuroscience
  - Intent is for courses to count as Restricted Electives
  - Looking into possibility of NEUR 4044 Senior Seminar equivalent being offered in Roanoke
  - Research credits would count as NEUR 4994 (3 credits)
- Nanoscience/Nanomedicine
  - Intent is for courses to count as Restricted Electives
  - Research credits would count as NANO 4994 (8 credits)



# Questions?



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