



ACADEMIC PATHWAYS IN  
**HEALTH & NATURAL SCIENCES**

PATHWAYS TO ACADEMIC ENGAGEMENT // JANUARY 28, 2020

# PLAN FOR TODAY:

- Welcome and Introductions
- Pre-Reflection
- Find Your Path at UW Bothell
- Career Pathways in Health & Natural Sciences
- Academic Majors in Health & Natural Sciences
  - *Biology*
  - *Chemistry*
  - *Health Studies*
  - *Conservation & Restoration Science*
  - *Earth System Sciences*
- Post-Reflection
- Advising Q&A with Success Team

***Enter a raffle for exciting prizes before you leave!***



WELCOME



# HEALTH & NATURAL SCIENCES

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PRE-REFLECTION:

What experiences or interests brought you to today's session?

**WHAT ARE MY INTERESTS?**

**WHAT ARE MY GOALS?**

**WHAT ARE MY STRENGTHS?**

**WHAT IS MY MOTIVATION?**

**WHAT IS MY PASSION?**

**FIND YOUR PATH IN**



**HEALTH & NATURAL SCIENCES**



# PRE-MAJOR ADVISING

Help you make sense of your academic strategies and academic progress towards a UWB degree.

## Meet with Pre-Major Advisor for:

- Registration
- Academic Planning
- Academic Difficulty
- Change Intended Major

## A Pre-Major Advisor's Role:

- Your First University Support Person
- Your Guide to Academic Success
- Connect to Campus Resources
- Engage in Reflective Conversations on Academic Trajectory at UWB

## Tips for building the Pre-Major and student relationship:

- Be curious about your academic journey!
- If your interests change, inform your advisor.
- Be prepared to make decisions with the options given.
- Ask Questions!
- Do your research! Explore your interests, majors & career options
- Make quarterly advising appointments

# ABOUT HEALTH & NATURAL SCIENCES

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*Use your research and observation skills to increase a shared sense of social responsibility and confront the complex issues facing humans and the world.*

- > **Apply knowledge of the physical, chemical, biological, and social sciences to solve problems and advance scientific discoveries**
- > **Gain hands-on experience with lab research or field work and enhance your ability to analyze data, identify patterns, manage interactions or predict outcomes**

# CAREER SERVICES RESOURCES

## > Appointments

- Career exploration
- Application materials and interviews
- Job & internship search strategies
- Grad school prep

## > Virtual resources

- Watch: videos, webinars, presentations at your own pace
- Explore: Candid Career, What Can I Do With This Major?, WOIS, Vault

## > Handshake & LinkedIn

- Build your profile and connect with people in your industry
- Research what alumni and professionals in your field have done
- Search for jobs & internships



*Visit our website:*  
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## Academic Majors:

- Biology
- Chemistry
- Health Studies
- Conservation & Restoration Science
- Earth System Science

**HEALTH & NATURAL SCIENCES**





**HOW TO FIND  
YOUR PATH IN  
HEALTH &  
NATURAL  
SCIENCES**

***Critical Questions:***

*As we review the next several slides....*

1. Think about the **classes** you enjoyed most in high school, or that you look forward to most at UW Bothell.
2. Be realistic about the time needed to develop **skills** and pursue **experiences** important for academic and professional success.
3. Make plans to **connect** with success team members who can help shape your path in Health & Natural Sciences.



# BIOLOGY

*Sometimes this major is called Biological Sciences.  
A related area of study is Biochemistry or Environmental Science.*

## **Classes you might enjoy:**

- Cancer: Biology, Risk, and Treatment
- Brain and Behavior
- Diversity of Sex
- Intro Biology Series

## **Experiences you might enjoy:**

- Biology internship or research with government or private sectors
- Student research UWB Biology faculty lab!
- Join the Biology Club!

## **Career Industries or Job Roles you might enjoy:**

- Biologist, zoologist, or botanist
- Health professional
- Lab Researcher
- Genetic Counselor
- Pharmacologist
- Biology teacher or professor
- Environmental Scientist
- Lawyer



# CHEMISTRY & BIOCHEMISTRY

## Classes you might enjoy:

- Preparation for general chemistry
- General Chemistry series for scientists
- Organic Chemistry and labs
- Biochemistry

## Experiences you might enjoy:

- Internship with government agency or local industries
- Research with Chemistry Faculty
- Summer research programs

## Career Industries or Job Roles you might enjoy:

- Chemist in public or private industry
- Forensic Scientist
- High School Teacher or Professor
- Lab or Climate Science Specialist
- Patent Examiner or Lawyer
- Science Technical Writer
- Pharmacist or Pharmacologist
- Doctor or other health care professions



HEALTH & NATURAL SCIENCES

# HEALTH STUDIES

*Sometimes this major is called Public Health.  
Related areas of study are Community Health, Global Health,  
and Health Administration.*

## Classes you might enjoy:

- Social Dimensions of Health
- Intro to Healthcare Policy & Systems
- Infectious Disease Detectives
- Global Health Practice

## Experiences you might enjoy:

- Volunteer as a UW Bothell HERO
- Intern with Seattle Children's Hospital
- Conduct health research with faculty
- Join the Health Studies Student Association (IG: @hssauwb)

## Career Industries or Job Roles you might enjoy:

- Medicine or Allied Health Professions
- Epidemiologist, Public Health Advisor, or Infectious Disease Researcher
- Health Education Specialist
- Community Health Worker, Patient Navigator, or Social Worker
- Health Care Administrator
- Environmental Health, Food Safety, or Nutrition



# CONSERVATION & RESTORATION SCIENCE

*Sometimes called Natural Resource Management, or Climate Science. Related areas of study include Forestry or Landscape Management.*

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## Class topics you might enjoy:

- Wildlife and Plant Ecology
- Water Resources and Pollution
- Urban Planning and Sustainability
- Geographic Information Systems

## Experiences you might enjoy:

- Research with the US Department of Agriculture to test quality of health and productive soils.
- Analyze proposed environmental policies as an intern with House Committee on Climate Change

## Career Industries or Job Roles you might enjoy:

- Wildlife and Fisheries Management
- Environmental Consulting and Regulation
- Science Teaching
- Urban Planning
- Green Space Management
- Environmental Law
- Forestry



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# EARTH SYSTEM SCIENCE

*Sometimes this major is called Atmospheric Science or Environmental Science. Related areas of study include Soil Science, Marine Science, and Geology.*

## Class topics you might enjoy:

- Oceanography
- Natural Hazards and Disasters
- Computer Modeling
- Remote Sensing
- Geology of the Pacific Northwest

## Experiences you might enjoy:

- Research how coastal wildlands and marine organisms adapt to global warming on a National Science Foundation project.
- Provide front line disaster support as an intern with the American Red Cross to understand how communities are affected by fires or hurricanes.

## Career Industries or Job Roles you might enjoy:

- Air or Water Quality Management
- Environmental Policy
- Pollution and Environmental Toxins Specialist
- GIS and Spatial Data Analyst
- Science Teaching
- Disaster and Emergency Management



# HEALTH & NATURAL SCIENCES

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POST-REFLECTION:

Which courses or experiences most called out to you?

*Write down your next step to further explore one pathway you experienced today!*

What are the **three most useful skills or talents** a student should have before entering this major?

What kind of **work-life balance** should a student in this major expect?

What is the **most underrated skill or attribute** to have as a graduate in this major?

What skills will a student **need to develop** to succeed after being admitted to the major?

What **myth about the major** would you like to bust?

What **advice** do you have for someone considering this major?

**PATHWAY Q & A**





**FELICITY**

Abeyta



**TRANG**

Nguyen

*Ask us about...*

- Choosing courses that introduce you to a wide scope of major options in Health and Natural Sciences and count towards pre-requisites.
- How to narrow your interests to a specific major or career.
- How the systems at a university work and what resources are available to you



**AMY**

Feldman -Bawarshi

*Ask me about...*

- Classes I can take as a non-major
- One way I can get involved in Biology undergraduate research?
- When do I become your academic adviser?



**KAITLIN**

Wright

*Ask me about...*

- Different pathways within Health Studies that can align with your goals and interests
- Finding co-curricular opportunities to advance your career in health



**EVA**

Navarajo

*Ask me about...*

- Study abroad, internships, and paid environmental research programs that count toward your major
- Fitting classes in your major about social justice, human rights, or global affairs



**ARNELLE**

Sambile

*Ask me about...*

- Connecting your interests to various job roles in Health & Natural Sciences
- How different majors fit with career options

# STAY CONNECTED



[www.uwb.edu/degrees/meta-major-pathways](http://www.uwb.edu/degrees/meta-major-pathways)



Registration & Advising Help: 12 – 1 PM on Friday, Feb 26



<https://tinyurl.com/y54dwt4d>