

# Bachelor of Science in Natural Science, Health Sciences

The goal of academic advising is to further enhance the educational mission of the university, and create quality, accessible advising partnerships with all students in a positive environment that supports student success. This advising sheet is for tracking purposes toward degree completion and is subject to change. Students also may track their academic progress via STAR Degree Check by visiting [www.star.hawaii.edu](http://www.star.hawaii.edu). Academic Advising appointments may be scheduled by calling [808-689-2689](tel:808-689-2689) or toll-free from neighbor islands at [866-299-8656](tel:866-299-8656).

## Graduation Requirements (see the 2021-2022 catalog for any additional graduation requirements):

- 30 Upper Division Credits Minimum
- 3 Upper Division Writing Intensive Courses
- 2.0 UHWO GPA
- 120 Total Credits Minimum
- Focus Requirements (OC, HAP, ETH)
- 2.0 CONCENTRATION GPA
- 30 UHWO Credits

## General Education Requirements: 31 credits

Credits	Course Alpha / Number / Title
3	Foundations Written Communications (FW) ENG 100 Composition I
3	Foundations of Quantitative Reasoning (FQ) <i>Recommend MATH 241 Calculus I</i>
6	Foundations Global and Multicultural Perspectives (FG): 6 credits from two <b>different</b> groups (A, B, C): *Group A: Primarily before 1500 CE (e.g.; HIST 151 or ANTH 151) *Group B: Primarily after 1500 CE (e.g.; HIST 152 or ANTH 152) *Group C: Pre-history to present
6	Diversification Arts, Humanities & Literature (DA, DH, DL): 6 credits from two different areas
3	Diversification Social Sciences (DS): 6 credits from two different areas <i>Recommend PSY 100</i>
3	Diversification Social Sciences (DS): Different area from above. <i>Recommend PUBA 104</i>
3	Diversification Natural Sciences (DB, DP, DY): 3 credits from the biological sciences (DB): <i>Recommend BIOL 171</i>
3	3 credits from the physical sciences (DP): <i>Recommend CHEM 161</i>
1	1 credit of laboratory (DY): <i>Recommend CHEM 161L</i>

## Writing Skills Requirement: 3 credits

Credits	Course Alpha / Number / Title
3	ENG 200 Composition II (or equivalent) with a "C-" or higher

## Natural Science Core Requirements: 31-41 credits

\*Up to 10 credits may also fulfill General Education Requirements

Credits	Course Alpha / Number / Title
0-4*	CHEM 161/ 161 L General Chemistry I and Lab ( <i>may also satisfy general ed DP/DY above</i> ) Prerequisite: Placement into ENG 100 or concurrent enrollment in ENG 100T and MATH 103 with a C or higher or concurrent enrollment in MATH 241
4	CHEM 162/ 162 L General Chemistry II and Lab Prerequisite: CHEM 161 with a C or higher
1-4*	MATH 241 Calculus I ( <i>may also satisfy general ed FQ above</i> ) Prerequisite: Grade of "C" or better in MATH 140 or equivalent; or placement into MATH 241
4	MATH 242 Calculus II Prerequisite: Grade of "C" or better in MATH 241 or equivalent; or placement into MATH 242
4	PHYS 151/ 151L College Physics I and Lab or PHYS 170/ 170 L General Physics I and Lab Prerequisite: MATH 140 with a C or better, or Math 241 with a C or better or concurrent with Math 241
4	PHYS 152/ 152 L College Physics II and Lab or PHYS 272/ 272 L General Physics II and Lab Prerequisite: PHYS 151/151L with a C or better, or PHYS 170/170L with a C or better and Math 242 with a C or better or concurrent with Math 242
1-4*	BIOL 171/ 171L Introduction to Biology I and Lab ( <i>may also satisfy general ed DB above</i> ) Prerequisite: Completion of or concurrent enrollment in either CHEM 151 or 161
4	BIOL 172/ 172L Introduction to Biology II and Lab Prerequisite: BIOL 171/171L

Credits	Course Alpha / Number / Title
3	<b>Select one course from the following:</b> HLTH 204 Introduction to Native Hawaiian & Indigenous Health and Healing HLTH 205 Hawaiian Ways of Healing NSCI 300 Interdisciplinary Indigenous Sciences and Health
1	NSCI 100 Transdisciplinary Introduction to Laboratory Methods
2	NSCI 200 Transdisciplinary Introduction to Research Methods
3	NSCI 400 Interdisciplinary Seminar

### Health Sciences Lower Division Concentration Requirement: 17-23 credits

Credits	Course Alpha / Number / Title
4	PHYL 141/141L Human Anatomy and Physiology I and Lab Prerequisite: Completion or current enrollment in ENG 100
4	PHYL 142/142L Human Anatomy and Physiology II and Lab Prerequisite: Grade of "C" in PHYL 141
3	HLTH 117 Survey of Health Professions
3	HLTH 123 Introduction to Clinical Skills and Patient Care
0-3	PSY 100 Survey of Psychology (may also satisfy general ed DS above)
0-3	PUBA 104 Introduction to Community Health (may also satisfy general ed DS above)
3	HLTH 242 Medical Terminology

### Health Sciences Upper Division Concentration Requirements: 12 credits

Credits	Course Alpha / Number / Title
3	HLTH 395 Health and Wellness for Life
3	HLTH 350 Biostatistics Prerequisite: MATH 135 or higher
3	<b>Select one course from the following:</b> BIOL 365 Research Methods in Biology (Prerequisite: BIOL 101 or BIOL 171) PUBA 308 Community Engaged Research Methods
3	PUBA 477 Ethics in Healthcare Administration (ETH) <b>OR</b> BIOL 405 Ethics for Biologists (ETH) Prerequisite: BIOL 101 or BIOL 171

### Health Sciences Concentration Electives: 12 credits

#### At least 9 credits need to be Upper Division 300-400 level

ANTH 425 Medical Anthropology	PUBA 302 Health Policy, Politics, & Law
ANTH 480 Land, Culture & Social Justice	PUBA 314 Community Epidemiology & Population Health
BIOC 441 Basic Biochemistry	PUBA 318 Managed Care
BIOL 275/275L Cell and Molecular Biology/Lab	PUBA 354 Program Planning & Evaluation in Health
BIOL 340 Genetics, Evolution, and Society	PUBA 446 Contemporary Issues in Healthcare
BIOL 375/375L Genetics/Lab	SCFS 340 Food Sovereignty, Nutrition & Human Wellbeing: Reconnecting Food, Nature & Community
BIOL 380/380L Advanced Human Anatomy & Lab	SOC 354 Survey of Medical Sociology
BIOL 384/384L Human Skeletal Biology & Lab	SOC 412 Death, Dying, & Bereavement
HLTH 302 One Health Approach to Infectious Disease	SOC 479 Applied Sociology: Community-Based Participatory Research in Health
MATH 304 Mathematical Modeling	
PHYL 301/301L Adv Human Anatomy & Phys/Lab	
PHYL 354/354L Exercise Physiology & Lab	
PSY 371 Abnormal Psychology	
PSY 473 Psychology of Healing	

Credits	Course Alpha / Number / Title
3	<i>(Upper Division 300-400 level)</i>
3	<i>(Upper Division 300-400 level)</i>
3	<i>(Upper Division 300-400 level)</i>
3	

**Capstone Requirement: 3 credits**

Credits	Course Alpha / Number / Title
3	NSCI 486H Senior Project (WI) or NSCI 490H Senior Practicum (WI)

**Elective Requirements: 0-11 credits, check with your College Success Advisor to determine how many elective credits are needed.**

Credits	Course Alpha / Number / Title
3	<i>Possible Upper Division Elective</i>
3	
3	
2	

**Note: Dr. Romine ([rromine@hawaii.edu](mailto:rromine@hawaii.edu)) is the Faculty contact for this concentration.**