

# Bachelor of Education, Secondary Education (6-12), Biology

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 through MyUH at [myuh.hawaii.edu](http://myuh.hawaii.edu). Academic Advising appointments may be scheduled by calling 808-689-2689 or toll-free from neighbor islands at 866-299-8656.

## Graduation Requirements (see the 2015-2016 catalog for any additional graduation requirements):

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|--|---|--|
| <input type="checkbox"/> 45 Upper Division Credits Minimum | <input type="checkbox"/> 3 Upper Division Writing Intensive Courses | <input type="checkbox"/> 2.0 OVERALL GPA       |
| <input type="checkbox"/> 120 Total Credits Minimum         | <input type="checkbox"/> Focus Requirements (OC, HAP, ETH)          | <input type="checkbox"/> 2.0 UHWO GPA          |
| <input type="checkbox"/> 30 UHWO Credits                   |   | <input type="checkbox"/> 2.0 CONCENTRATION GPA |

## General Education Requirements: 31 credits

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
3	Foundations Written Communications (FW) ENG 100 Composition I			
3	Foundations Symbolic Reasoning (FS) MATH 103 or higher			
3	Foundations 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			
3	Foundations Multicultural Perspectives (FG): Group different from above.			
3	Diversification Arts, Humanities & Literature (DA, DH, DL): (Recommended H-Focus)			
3	Diversification Arts, Humanities & Literature (DA, DH, DL): (Recommended O-Focus)			
3	Diversification Social Sciences (DS): (Recommended: PSY 100, pre-req for PSY 342)			
3	Diversification Social Sciences (DS): Different area from above.			
3	Diversification Natural Sciences (DB, DP, DY): 3 credits from the biological sciences (DB):			
3	3 credits from the physical sciences (DP):			
1	1 credit of laboratory (DY):			

## Writing Skills Requirements: 3 credits

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

## Lower Division Math Requirements: 0-3 credits

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
0 or 3	MATH 103 with a "C-" or higher (can also satisfy general ed FS above)			

## Educational Foundations: 12-15 credits

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
3	ETEC 279 Educational Media & Technology Prerequisite: ICS 101 with grade of "C" or higher or consent of instructor; placement into ENG 100 or concurrent reenrollment in ENG 22.			
3	SPED 304 Foundations of Inclusive Schooling			
3	PSY 100 Survey of Psychology (can also satisfy general ed DS above)			
3	PSY 342 Educational Psychology			
3	PSY 343 Adolescent Psychology			

**Pre-Professional Teacher Education Courses: 9 credits**

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
3	EDEF 200 Early Field Experience (1 cr) (45 hours in assigned DOE classroom) EDEF 201 Introduction to Teaching as a Career (2 cr) Prerequisite: Placement into ENG 100 or concurrent enrollment in ENG 22			
3	EDEF 310 Education in American Society (20 hours of service learning required) Prerequisite: Sophomore or higher level standing; completion of EDEF 200 and 201 with "C-" or higher or concurrent enrollment	WI		
3	EDEF 345 Introduction to Middle-level & Secondary Education			

**Teaching Area Biology: 54-64 credits**

\*Max 10 credits may be used to fulfill General Education Requirements

**Biology: 25 credits**

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
4	BIOL 171/171L Introduction to Biology I (3cr) and Lab (1cr)			
4	BIOL172/172L Introduction to Biology II (3cr) and Lab (1cr)			
4	BIOL 265/265L Ecology and Evolutionary Biology (3cr) and Lab (1cr)			
4	BIO 275/275L Ecology and Evolutionary Biology (3cr) and Lab (1cr)			
4	BIOL 375/375L Genetics (3cr) and Lab (1cr)			
3	MICR 130 General Microbiology			
3	MICR 140 General Microbiology Lab			

**Electives: 6 credits of Upper Division courses in Biological Sciences**

Select 6 credits from the following:

Courses:

BIOL 301 Marine Ecology and Evolution \* In Development

BIOL 310 Environmental Issues

BIO 360 Island Ecosystems

BIOL 410 Human Role in Environmental Change

Courses:

BOT 350 Resource Management and Conservation in Hawaii

ZOO 410 Corals and Coral Reefs \* In Development

ZOO 450 Natural History of the Hawaiian Islands

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
3				
3				

**Chemistry: 13 credits**

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
4	CHEM 161/161L General Chemistry I (3cr) and Lab (1cr)			
4	CHEM 162/162L General Chemistry II (3cr) and Lab (1cr)			
5	CHEM 272/272L Organic Chemistry I (3cr) and Lab (2cr)			

**Physical Science: 11 credits**

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
3	ASTR 110 Survey of Astronomy			
4	PHYS 100/100L Survey of Physics (3cr) and Lab (1cr)			
4	GEOL 101/101L Dynamic Earth (3cr) and Lab (1cr)			

**Math: 9 credits**

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
3	MATH 103 College Algebra			
3	MATH 140 Pre-Calculus: Trigonometry and Analytic Geometry			
3	SSCI 210 Statistical Analysis I			

**Professional Teacher Education Requirements: 18 credits****Admission Requirements - Approval of Application for Professional Teacher Education (APTE):**

1. Praxis I PPST: Reading (172); Math (173); Writing (171) accepted if passed on or prior to 06/30/14; OR CORE: Reading (156); Writing (162); Math (150)
2. Completion of a minimum of 55 credits.
3. "C" or higher in EDEF 200, EDEF 201, EDEF 310, and EDEF 345. "C-" or higher in ENG 100, ENG 200, MATH 103, PSY 342 and PSY 343.
4. 2.5 Overall GPA; This includes GPA for credits transferred to UHWO.
5. Fingerprinting and criminal background check clearance by the Hawai'i Department of Education.

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
9	BLOCK 1 Prerequisite: APTE approval EDEF 404 WI Teaching Culturally and Linguistically Diverse Learners SPED 405 Educating Students with Disabilities EDSE 430 Block 1 Practicum with Seminar (45 hours in assigned DOE classroom)	WI		
9	BLOCK 2 Prerequisite: Completion of all Block 1 courses with "C-" or higher EDUC 410 Reading & Writing Across the Curriculum EDSE 457 Biological Science Methods EDML 440 Block 2 Practicum with Seminar (45 hours in assigned DOE classroom)	WI		

**The Professional Semester: 15 Credits****Student Teaching Application Requirements: (submit 8 mos. prior to enrollment in student teaching)**

1. Completion of all required Pre-professional & Professional and Professional Teacher Education courses.
2. 2.75 GPA or higher for the Methods Block courses (400-level series);
3. 2.5 overall or higher GPA, with no grade lower than a "C-" for all Education courses.
4. Passing of Praxis II Content Knowledge Test. HTSB website <http://www.ets.org/praxis/hi/requirements> OR

Credits	Course Alpha / Number / Title	WI or Focus	Semester Completed	Grade
12	EDSE 490 Student Teaching			
3	EDSE 492 WI Student Teaching Seminar	WI/ETH		