

Bachelor of Education, Secondary Education (6-12), General Science

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 STAR GPS at <https://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 2022-23 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 UHWO GPA |
| <input type="checkbox"/> 120 Total Credits Minimum | <input type="checkbox"/> Focus Requirements (OC, HAP, ETH) | <input type="checkbox"/> 2.0 CONCENTRATION GPA |
| <input type="checkbox"/> 30 UHWO Credits | | |

General Education Requirements: 31 credits

Credits	Course Alpha / Number / Title
3	Foundations Written Communications (FW) ENG 100 Composition I
3	Foundations Symbolic Reasoning (FS) OR Foundations of Quantitative Reasoning (FQ): MATH 103 College Algebra or higher
6	Foundations Multicultural Perspectives (FG): (Recommended: HIST 151) 6 credits from two different 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): (Recommended: PSY 100)
3	Diversification Social Sciences (DS): Different area from above. (Recommended: SPED 304)
3	Diversification Natural Sciences (DB, DP, DY): 3 credits from the biological sciences (DB):
3	3 credits from the physical sciences (DP): recommended PHYS or CHEM course
1	1 credit of laboratory (DY):

Writing Skills Requirement: 3 credits

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

Lower Division Math Requirement: 0-3 credits

Credits	Course Alpha / Number / Title
3	MATH 103 with a C- or higher (can also satisfy general ed FS/FQ above)

Educational Foundations: 9-15 credits

Credits	Course Alpha / Number / Title
3	ETEC 279 Educational Media & Technology
3	SPED 304 Foundations of Inclusive Schooling (20 hours of service learning required) (May be used to fulfill OC requirement)
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
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.

Credits	Course Alpha / Number / Title
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
3	EDEF 345 Introduction to Middle-level & Secondary Education (45 hours in assigned DOE classroom) Prerequisite: completion of EDEF 200 and 201 with "C-" or higher and prior or concurrent enrollment in EDEF 310.

Teaching Area General Science: 41-43 credits***7 credits can satisfy DB, DP and DY in General Ed Requirements****Biology: 10 credits**

Credits	Course Alpha / Number / Title
4	BIOL 123/123L Hawaiian Environmental Biology (3cr) and Lab (1cr)
3	BIOL 310 Statistics for Biologists or BIOL 405 Ethics for Biologists
3	BIOL 340 Genetics, Evolution, & Society

Botany: 4 credits

Credits	Course Alpha / Number / Title
4	BOT 101/101L General Botany (3cr) and Lab (1cr)

Physical Sciences: 11 credits**Biochemistry: 3 credits**

Credits	Course Alpha / Number / Title
3	BIOC 141 Fundamentals of Biochemistry (3cr)

Chemistry: 4 credits

Credits	Course Alpha / Number / Title
4	CHEM 161/161L General Chemistry (3cr) and Lab (1cr)

Physics: 4 credits

Credits	Course Alpha / Number / Title
4	PHYS 151/151L College Physics (3cr) and Lab (1cr)

Earth Sciences: 8 credits

Credits	Course Alpha / Number / Title
4	GEOL 101/101L Dynamic Earth (3cr) and Lab (1cr)
4	GEOL 368/368L Planetary Science in the Classroom (3cr) and Lab (1cr)

Elective Science Course: 6-8 credits**Select 6 credits from the following: At least 3 credits must be 300-level or higher.*****Classes may be used only once to meet a requirement for one of the sciences or as an elective.**

ASTR 110 Survey of Astronomy
 *BIOL 310 Statistics for Biologists (3cr)
 BIOL 360 Island Ecosystems (3 cr)
 BIOL 365 Research Methods in Biology
 BIOL 375/L Genetics & Lab
 BIOL 384/L Human Skeletal Biology & Lab
 *BIOL 405 Ethics for Biologists
 BIOL 475 The Analysis of Animal Remains in
 Archaeology, Biology, and Forensics

FORS 101 Introduction to Forensics (3cr)
 GEOL 130 Geological Hazards (3cr)
 GEOL 205 Geology of the Hawaiian Islands (3 cr)
 GEOL 300 Volcanology (3cr)
 MET 101/L Introduction to Meteorology (3cr) and Lab (1 cr)
 MET 209/L Introduction to Climate Studies (3cr) and Lab (1 cr)
 OCN 201 Science of the Sea (3cr)

ZOOL 450 Natural History of Hawaiian Islands

Credits	Course Alpha / Number / Title
3	Upper Division Course
3	

PROFESSIONAL TEACHER EDUCATION REQUIREMENTS: 30 credits**Admission Requirements - Approval of Application for Professional Teacher Education (APTE):**

1. Submit an Application for Teacher Education (APTE) to the Division of Education by the 1st week of the semester preceding anticipated enrollment.
2. Completion of a minimum of 55 credits.
3. "C-" or higher in EDEF 200, EDEF 201, EDEF 310, EDEF 345, and SPED 304. "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
12	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) EDUC 410 Reading & Writing Across the Curriculum
6	BLOCK 2 Prerequisite: Completion of all Block 1 courses with grades of "C-" or higher EDSE 458 Secondary General Science Methods EDSE 440 Block 2 Practicum with Seminar (45 hours in assigned DOE classroom)

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. Content knowledge verification, must complete one of the options below:
 - Passing of Praxis II Content Knowledge Test. HTSB website <http://www.ets.org/praxis/hi/requirements>. **OR**
 - Content major consisting of a minimum of 30 credits in the content field of the Bachelor's degree awarded by a regionally accredited institution of higher education **OR**
 - Complete a minimum of 30 credits in the content field from a regionally accredited institution of higher education with a 2.50+ GPA. At least 15 credits must be Upper Division.

Credits	Course Alpha / Number / Title
12	EDSE 490 Student Teaching
3	EDSE 492 WI Student Teaching Seminar

Electives: 0-3 credits

*See your College Success Advisor to determine if elective credits are needed.

Credits	Course Alpha / Number / Title
3	

The Faculty contact for Middle-Level and Secondary General Science is Dr. Richard Jones

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