

## Bachelor of Education, Middle-level Education (6-8), Mathematics

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 2024-25 catalog for any additional graduation requirements):

- |  |   |  |
|--|---|--|
| <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                   |   |  |

\*Note: Some courses may be applied more than once to fulfill General Education, Educational Foundation, or Teaching Area Requirements. Double counted courses do not reduce the number of credits required for the concentration. Students are still responsible for meeting the minimum number of credits in the concentration and the overall total credits for graduation

### General Education Requirements: 31 credits (22 credits\* see note above)

Credits	Course Alpha / Number / Title
3	Foundations Written Communications (FW) ENG 100 Composition I
0*	Foundations of Quantitative Reasoning (FQ): <b>MATH 112 Math for Elementary School Teachers II</b>
6	Foundations Multicultural Perspectives (FG): (Recommended: HIST 151) 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
0*	Diversification Social Sciences (DS): <b>PSY 100</b>
0*	Diversification Social Sciences (DS): Different area from above. <b>SPED 304</b>
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: 3 credits

Credits	Course Alpha / Number / Title
3	MATH 112 Mathematics for Elementary Teachers II with a grade of "C-" or higher ( <i>can also satisfy general ed FQ above</i> )

### Educational Foundations: 15 credits

Credits	Course Alpha / Number / Title
3	ETEC 279 Educational Media & Technology
3	SPED 304 Foundations of Inclusive Schooling ( <i>20 hours of service learning required</i> ) ( <i>May be used to satisfy OC focus</i> ) ( <i>Will satisfy general ed DS requirement above</i> )
3	PSY 100 Survey of Psychology ( <i>Will satisfy general ed DS requirement above</i> )
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) <i>(45 hours in assigned DOE classroom)</i> 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 <i>(20 hours of service learning required)</i> 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 <i>(45 hours in assigned DOE classroom)</i> Prerequisite: completion of EDEF 200 and 201 with "C-" or higher and prior or concurrent enrollment in EDEF 310.

**Mathematics: 34 credits**

Credits	Course Alpha / Number / Title
3	MATH 111 Mathematics for Elementary Teachers I Prerequisite: Grade of "C" or better in MATH 103 or equivalent; or placement into MATH 111
3	MATH 112 Mathematics for Elementary Teachers II <i>(Will satisfy general ed FQ and Lower Division Math requirement above)</i> Prerequisite: MATH 111 with grade of "C" or better
4	MATH 241 Calculus 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	MATH 245 Multivariable Calculus
3	MATH 307 Linear Algebra & Ordinary Differential Equations <b>OR</b> MATH 311 Introduction to Linear Algebra
3	MATH 327 Origins of Mathematics Prerequisite: MATH 242 or equivalent. MATH 311 or MATH 321 recommended
3	MATH 361 Applied Probability Theory
1	MATH 480 Senior Seminar

**Elective Math Courses: Complete 6 credits**

MATH 321 Introduction to Advanced Mathematics  
MATH 331 Introduction to Real Analysis  
MATH 351 Foundation of Euclidean Geometry  
MATH 411 Linear Algebra  
MATH 412 Introduction to Abstract Algebra I  
MATH 461 Applied Statistics

Credits	Course Alpha / Number / Title
3	
3	

**PROFESSIONAL TEACHER EDUCATION CURRICULUM: 20 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 1<sup>st</sup> week of the semester preceding anticipated enrollment.
2. Completion of a minimum of 55 credits.
3. Grade of "C-" or higher in the following courses: EDEF 200, EDEF 201, EDEF 310, EDEF 345, ENG 100, ENG 200, MATH 245, PSY 342, PSY 343, and SPED 304.
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
14	<b>BLOCK 1</b> Prerequisite: APTE approval EDEF 404 WI Teaching Culturally and Linguistically Diverse Learners SPED 405 Educating Students with Disabilities EDML 430 Block 1 Practicum with Seminar (45 hours in assigned DOE classroom) EDUC 410 Reading & Writing Across Curriculum EDUC 482 Productive Learning in the Math Classroom
6	<b>BLOCK 2</b> Prerequisite: Completion of all Block 1 courses with grades of "C-" or higher EDML 438 Middle-level Math Methods EDML 440 Block 2 Practicum w/seminar (45 hours in assigned DOE classroom)

### PROFESSIONAL STUDENT TEACHING 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	EDML 490 Student Teaching
3	EDML 492 WI Student Teaching Seminar

### Electives: 2 credits

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

Credits	Course Alpha / Number / Title
2	

The Faculty contact for Middle-Level and Secondary Mathematics is Dr. Laurie James Email: [ljames7@hawaii.edu](mailto:ljames7@hawaii.edu); Phone (808) 689-2364.