

WAIPAHU HIGH SCHOOL

Registration Guide 2024-2025

**Wall to Wall
National Model
Academy High
School**



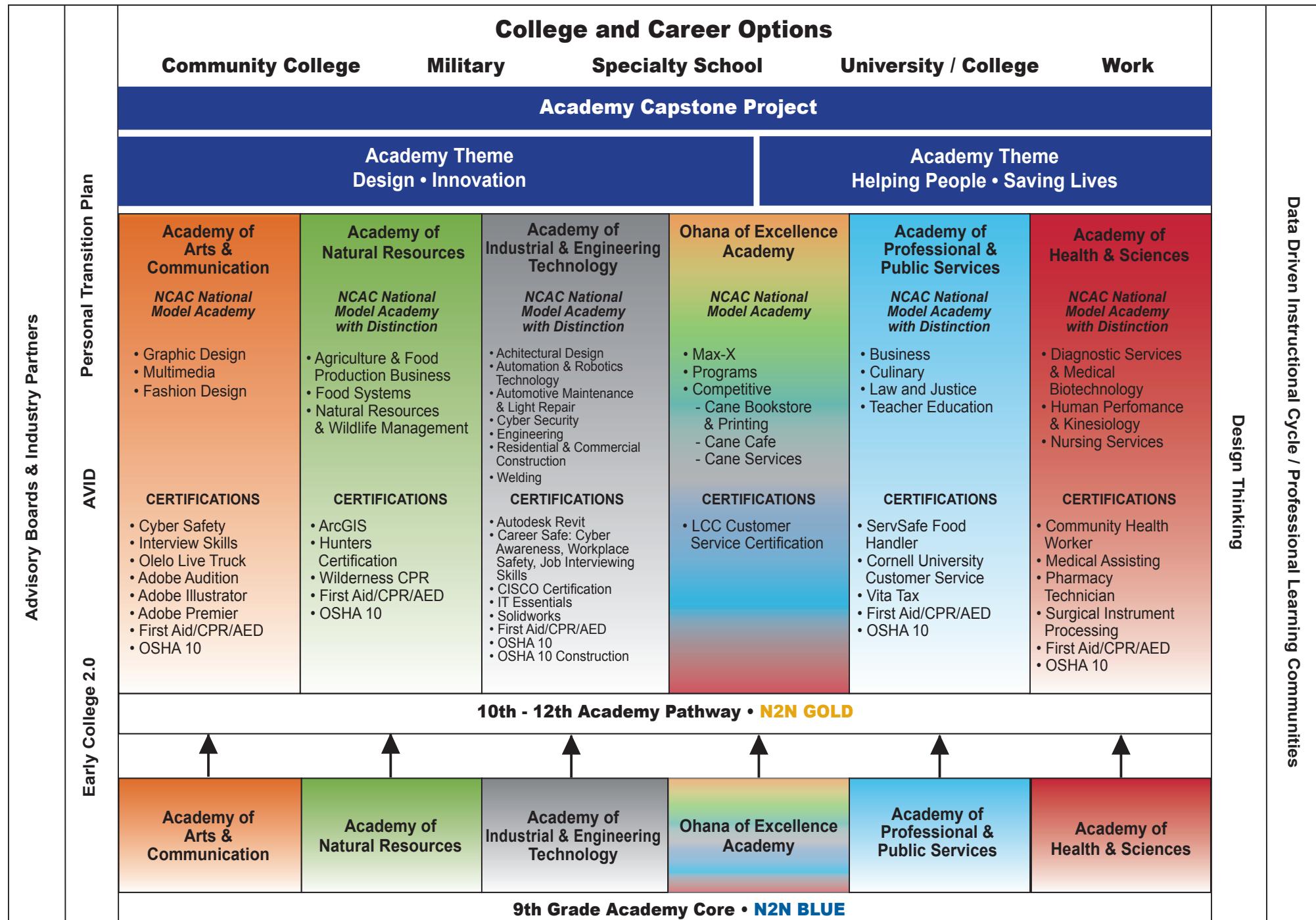
- Arts & Communication
- Health & Sciences
- Industrial & Engineering Technology
- Natural Resources
- Ohana of Excellence
- Professional & Public Services



PHI THETA KAPPA
HONOR SOCIETY



Waipahu High School Design



CONTINUOUS NOTICE OF NON-DISCRIMINATION: The Hawaii State Department of Education (HIDOE) and its schools do not discriminate on the basis of race, color, national origin, ancestry, sex, gender identity, gender expression, sexual orientation, age, disability, and religion. Please direct inquiries regarding HIDOE non-discrimination policies as follows: Beth Schimmelfennig, Director, Rhonda Wong, Compliance, Aaron Oandasan, Title VI, Nicole Isa-Iijima, Title IX, Krysti Sukita, ADA/504, Civil Rights Compliance Branch, Hawaii State Department of Education, P.O. Box 2360 Honolulu, Hawaii 96804, (808) 58603322 or relay info@crc.o.k12.hi.us

Table of Contents

- General School Information | Page 3
- Graduation Requirements | Page 4
- School Recognitions, Commencement | Page 5
- McInerny Foundation Early College | Page 6
- Advanced Placement, HVLN Online Courses, GE | Page 7
- Academy of Arts & Communication | Page 9
 - Fashion Design | Page 10
 - Digital Design | Page 10
 - Film & Media Production | Page 11
- Academy of Professional & Public Services | Page 13
 - Business | Page 14
 - Culinary | Page 15
 - Law & Justice | Page 16
 - Teacher Education | Page 18
- Academy of Health & Sciences | Page 19
 - Diagnostic Services & Medical Biotechnology | Page 20
 - Human Performance & Kinesiology | Page 21
 - Nursing Services | Page 22
- Academy of Natural Resources | Page 23
 - Food Systems | Page 24
 - Natural Resources Management | Page 25
 - Natural Resources Business | Page 26
- Academy of Industrial & Engineering Technology | Page 27
 - Architectural Design | Page 28
 - Automation & Robotics Technology | Page 29
 - Automotive Maintenance & Light Repair | Page 30
 - Cybersecurity | Page 31
 - Engineering | Page 32
 - Residential & Commercial Construction | Page 33
 - Welding | Page 34
- Core Courses | Page 35
 - Language Arts | Page 35
 - Newswriting | Page 36
 - Mathematics | Page 37
 - Science | Page 40
 - Social Studies | Page 44
- Global Electives | Page 46
 - Business 46
 - Computer Science | Page 46
 - Fine Arts | Page 47
 - World Language | Page 52
 - Guidance | Page 54
 - PE/Health | Page 54 Yearbook |
Page 56
 - AVID | Page 56
 - Leadership Training | Page 56
 - English Learner | Page 57
 - JROTC | Page 58
 - STEM Capstone | Page 58
 - Artificial Intelligence | Page 58
 - General Work-Based Learning
- sUAS Commercial Drones |
Page 59



My Voice, My Choice, My Future

Notice of Language Assistance

If you have difficulty understanding English, you have the right to receive language assistance at no cost to you. Please contact your school's principal for more information.

(Traditional Chinese / 繁體中文) 如果您理解英語有困難，您有權得到免費的語言幫助。
請聯繫您的學校校長以獲得更多信息。

(Simplified Chinese / 简体中文) 如果您理解英语有困难，您有权得到免费的语言帮助。
请联系您的学校校长以获得更多信息。

(Japanese / 日本語) 英語の理解に困難を覚える方は、無料で言語支援を受ける権利があります。
詳細につきましては学校長にお問合せください。

(Hawaiian / 'Ōlelo Hawai'i) Ina pilikia oe i ka hoomaopopo i ka olelo Pelekania, he kuleana no kou e lawelawelia oe i ke kokua olelo me ka uku ole. E hui kuka me ke poo kumu o kou kula no kekahi ike hou aku.

(Korean / 한국어) 영어를 이해하는데 어려움이 있는 경우, 무료로 통역 지원을 받을 권리가 있습니다.
더 자세한 정보는 학교장에게 연락하십시오.

(Chuukese / Kapasen Chuuk) Ika epwe weires ngonuk omw weweiti fóós un Merika, mi wor omw pwúung omw kopwe angei aninnisin aweween fóós esapw kame. Kose mochen kékkééri ewe meinapen ewe sukkun (Principal) ren tichikin pworausau.

(Ilokano / Ilokano) Nu narigat mo a maawatan ti Ingles, karbengam nga umawat ti tulong ti lenggwahé ket awan bayad na dayta a serbisyo. Para ti kanayonan nga impormasyon, mabalin a kontakem ti prinsipal ti eskwelaan yo maipanggep iti dayta a serbisyo.

(Samoan / Gagana Samoa) Afai e faigatā ona ē malamalamā i le Igilisi, e i ai lau aiā e maua ai le fesoasoani tau gagana e aunoa ma se tupe e te totogi ina. Fa'amolemole fa'afeso'ota'i le pule o lau aoga mo nisi fa'amatalaga.

(Tongan / Lea faka-Tonga) Kapau 'oku faingata'a ke mahino kiate koe 'a e lea faka-Papalangi, 'oku 'i ai ho'o totonu ke ke ma'u ha tokoni fakatonulea 'ikai totongi. Kataki 'o fetu'utaki ki he puleako ki ha toe fakaikiiki ange.

(Tagalog / Tagalog) Kung nahihiapan kang intindihin ang Ingles, karapatan mong makatanggap ng tulong para sa lenggwahé at libre ang serbisyong ito. Para sa karagdagang impormasyon, maari mong kontakin ang prinsipal ng iyong paaralan tungkol sa serbisyong ito.

(Cebuano / Sugboanon) Kon kamo adunay kalisud sa pagsabut sa Inglés, naa moy katungod sa pagdawat sa tabang sa pinulongan nga walay gasto kaninyo. Palihog kontaka ang prinsipal sa inyong eskwelahan alang sa dugang nga impormasyon.

(Vietnamese / Tiếng Việt) Nếu quý vị thấy khó khăn trong việc hiểu tiếng Anh, quý vị có quyền nhận được sự hỗ trợ ngôn ngữ miễn phí. Vui lòng liên hệ hiệu trưởng của trường quý vị để biết thêm thông tin.

(Spanish / Español) Si tiene dificultad para entender Inglés, tiene derecho a recibir asistencia lingüística sin costo alguno para usted. Comuníquese con el director de su escuela para obtener más información.

(Marshallese / Kajin Majöl) Elaññe ejabwe am melele kajin Pälle, ewör am jimwe ñan jibañ ko ikijien ukok ilo ejelok wönen. Jouj im köjjeläik lok principle eo an jikuul eo am ñan melele ko rellap lok.

CONTINUOUS NOTICE OF NON-DISCRIMINATION

The Hawaii State Department of Education (HIDOE) does not discriminate on the basis of race, color, national origin, ancestry, sex, gender identity, gender expression, sexual orientation, age, disability, and religion.

Please direct inquiries regarding HIDOE nondiscrimination policies as follows:

Beth Schimmelfennig, Director, Rhonda Wong, Compliance, Aaron Oandasan, Title VI, Toby Yamashiro, Title VII, Nicole Isa-Iijima, Title IX, Krysti Sukita, ADA/504

Civil Rights Compliance Branch Hawaii State Department of Education

P.O. Box 2360 Honolulu, Hawaii 96804

(808) 586-3322 or relay CRCB@k12.hi.us.



WAIPAHU HIGH SCHOOL

24-25 Registration Guide

A Copy of this guide can also be found at <https://tinyurl.com/WHSRegistration25>

Waipahu High School is a College and Career Academy high school focused on engaging students through leveraging their passions, creating purpose, and providing an array of opportunities and supports for success.

Waipahu High is fully accredited by the Western Association of Schools and Colleges. Total enrollment in grades 9-12 is approximately 2,500. Waipahu High School qualifies for school wide Title I Project Funds and as of 2020, 50% of students qualified for free or reduced-cost lunch. Our student-centered motto is *My Voice. My Choice. My Future.*

Students at Waipahu High School enroll in one of six nationally certified model academies, or model academies with distinction: Arts & Communication, Health & Sciences, Industrial & Engineering Technology, Natural Resources, O'hana of Excellence, or Professional and Public Services. Students in each academy are supported by teams of committed teachers; counselors; an academy assistant principal; and post-secondary, industry, and community partners. Waipahu High School offers twenty-one different programs of study and twenty-five industry recognized credentials within an academy curricula that's aligned to rigorous industry standards.

School Vision

Waipahu High School's vision is to provide student-centered educational programs that challenge all students to perform at their highest potential.

School Mission

Waipahu High School prepares students for success in the 21st century by engaging them in rigorous and relevant learning opportunities that promote academic, physical, and emotional growth.

22-23 School year at a glance

- The Class of 2023 graduated 608 students. Their accolades included: 93 valedictorians; 223 Academic Honors; 201 Career and Technical Education Honors; 131 STEM Honors; and 104 Seals of Biliteracy (38 students proficient in two languages and 2 proficient in four). Over \$27 million dollars has been awarded to the class of 2023 in merit-based scholarships.
- 10 United States Presidential Scholar Candidates with 3 semi-finalists.
- 30 seniors earned their Associate's Degree from Leeward Community College.
- A total of 68 seniors have been inducted into Waipahu High School's Beta Chi Omega Chapter of the prestigious Phi Theta Kappa Collegiate Honor Society.
- Over 280 students earned national certifications in Medical Assisting, Pharmacy Techs, Certified SolidWorks Associate, Revit Architecture Certified User, and more.
- Check out the school's website for more: waipahuhigh.org

REQUIRED PROGRAM FOR GRADES 9 - 12

GRADE 9	GRADE 10	GRADE 11	GRADE 12
English	English	English	English
Social Studies	Social Studies	Social Studies	Social Studies
Mathematics	Mathematics	Mathematics	Elective
Science	Science	Science	Elective
PE Life Act./PE Elective	Health/Elective	Elective	Elective
Career Pathway Core	Pathway Program of Study	Pathway Concentration	Elective
Elective	Elective	Elective	Elective
		Personal Transition Plan	

GRADE LEVEL PROMOTION

- Grade 09 to Grade 10: 5 credits
Grade 10 to Grade 11: 11 credits
Grade 11 to Grade 12: 17 credits

FAILURES

A student who fails any required course for graduation must repeat it until he/she earns the credit with a passing grade. Summer school or after-school credit recovery classes are recommended.

CERTIFICATE OF COMPLETION

The Certificate of Completion of an Individually Prescribed Program (IPP) shall be issued to a student with a disability who completes all the requirements set by the student's Individualized Education Program (IEP).

GRADUATION REQUIREMENTS

For more information, please visit: <http://www.hawaiipublicschools.org/>

1. STUDENT MUST EARN **24 CREDITS**
2. STUDENT MUST PASS ALL REQUIRED COURSES (SEE LIST BELOW)

REQUIRED CREDITS

English	4.0 credits – Eng LA 1 (1 cr.), Eng LA 2 (1 cr.), *Expository Writing (0.5 cr) Basic English Electives (1 cr). *Eng LA 3 or LA 4 meets Expos requirement
Social Studies	4.0 credits – Mod Hist HI (0.5 cr) and Part Democ (0.5 cr), Wld Hist (1 cr), US Hist & Govt (1 cr), Basic Soc Stud elective (1 cr), *
Mathematics	3.0 credits – Alg I (1 cr), Geom (1 cr), Basic Math Elective (1 cr), *
Science	3.0 credits – Biology (1 cr) and Laboratory Science (2 cr), *
Physical Education	1.0 credit – PE Lifetime Fitness (0.5 cr), PE Lifetime Activities, *
Health	0.5 credit – Health-Today and Tomorrow (0.5 cr), *
Personal/Transition Plan	0.5 credit – Not a scheduled course.
Electives	6.0 credits
Electives	2.0 credits in one of the following specified programs of study , * World Languages - Both credits must be in same language. Performing/Fine Arts - Included in Art, Music, and Language Arts(Drama). Both credits can be from either visual and/or performing arts. Career & Technical Education – Two credits in a single career pathway program of study sequence.

* - or newly-developed proficiency-based equivalent

SCHOOL RECOGNITIONS

The following designations may be awarded to the student upon completion of requirements for each:

Academic Honors – Overall GPA of 3.0 minimum, 4 credits of Math (4th credit beyond Alg II), 4 credits of Science, 2 credits minimum in AP/IB/College Credit (e.g. Running Start, Early College).

CTE Honors – Overall GPA of 3.0 minimum, program of study completion (2-3 courses in sequence with B or better in each required program of study course), meet or exceed proficiency on performance-based assessment.

STEM Honors – Overall GPA of 3.0 minimum, 4 credits of Math (4th credit beyond Alg. 2), 4 credits of Science (one credit must be earned in Biology 1), STEM capstone/STEM senior project.

Grade Point Average Honors – Identification of graduating students to receive the Recognition Diploma will be based on review of courses, credits, and GPA's conducted at the end of the third quarter of the school year.

Cum Laude – 3.0 to 3.5

Magna Cum Laude – 3.5+ to 3.8

Summa Cum Laude – 3.8+ or higher

Hawaii Seal of Biliteracy – The Hawai‘i Seal of Biliteracy is awarded upon graduation to students who demonstrate a high proficiency in:

- our state’s two official languages of ‘Ōlelo Hawai‘i and English; or
- either of our state’s two official languages and at least one additional language.

Visit the [Hawaii DOE website](#) for more information.

**An applicant is responsible for payment of world language assessment fees.

COMMENCEMENT EXERCISES

Students shall be permitted to participate in commencement exercises if they: 1) meet the requirements for a diploma or certificate; 2) have fulfilled their financial obligations; and 3) meet other conditions, established by the Department of Education, which meet the standards of clarity, reasonableness, and justifiability.

VALEDICTORIAN/SALUTATORIAN

The selection of the valedictorian and salutatorian will be based on the cumulative grade point averages of students at the end of the third quarter in their senior year. All seniors who earn one of the Honors Recognition Certificates as well as earn a cumulative grade point average of 4.00 and above will be declared Valedictorians. If more than one senior is declared Valedictorian, no Salutatorian will be declared.

HALF DAY SCHEDULE (FOR SENIORS ONLY)

Seniors with sufficient credits to graduate may qualify for a half-day schedule to participate in activities such as internships, Running Start, and/or senior project work.

- A. Parents must come to school to sign permission paper for release or have it signed before a NOTARY PUBLIC.
- B. On release from school, seniors must leave campus.
- C. All applications will be handled by the senior’s counselor and/or administration.

RUNNING START

Running Start is a program that enables high school students to earn dual credit (university and high school graduation credit) when taking and passing Running Start courses. The Running Start courses are held on community college and university campuses. Students will need to pay the current per-credit tuition rate for all Running Start courses they enroll in. Tuition assistance may be available for any student on the Free/Reduced lunch or with other financial hardship through the WHS McInerny Foundation 3.0 Early College Program. All prospective Running Start students need to be on track for graduation, and need to take an EdReady assessment (required by all community colleges). For more information, students need to see the Early College Staff in V building (1 st floor) or see their respective academy counselor.

WAIPAHU HIGH SCHOOL MCINERNY FOUNDATION 3.0 EARLY COLLEGE PROGRAM

The Waipahu High School McInerny Foundation 3.0 Early College Program provides students with the opportunity to take a combination of high school and college classes in order to obtain their high school diploma, while at the same time earning dual credit (e.g., 3 college credits for Psychology 100 also awards 1 credit of Social Studies with the same letter grade). Unlike Running Start, all Early College classes are tuition free (including textbooks), students earn college credit that is weighted on a 5.0 scale (similar to AP coursework) for select Early College courses, and classes are offered at Waipahu High School after school, generally twice a week.

Today, there are more than 240+ redesigned Early College schools serving more than 75,000 students in 28 states and the District of Columbia. To be eligible for Early College classes a prospective Early College student must: 1) have a minimum 2.0 GPA for LCC classes, 2.7 GPA for UH West Oahu classes, and/or meet minimum GPA requirements for other partner colleges, 2) meet minimum EdReady Placement Test cutoff scores for the respective class and 3) satisfactorily complete all application documents by the published deadline (e.g., official transcript, UH Common application, Running Start application and residency verification). Admission and registration is based on first-come, first-serve, first-completed basis and is contingent upon available funding and minimum enrollments.

Students interested in applying for admission are invited to application orientation sessions prior to each semester and may submit their contact information to the Early College Staff located in V building (1 st floor) anytime during the school year.

LIST OF EARLY COLLEGE COURSES TAKEN AT WAIPAHU HS

Course Name	Course Title	5 point	Course Name	Course Title	5 point
HLTH 117	SURVEY OF HEALTH PROFESSIONS	N	MUS 208	INTRODUCTION TO SONGWRITING	N
ASTR 298	ASTRONOMY UNDERGRADUATE RESEARCH PROJECT	N	ENG 100	COMPOSITION I	Y
ILO 102	BEGINNING ILOKANO II	N	ENG 204	INTRODUCTION TO CREATIVE WRITING	Y
ANTH 152	CULTURE AND HUMANITY	N	SP 151	PERSONAL AND PUBLIC SPEECH	Y
PSY 100	SURVEY OF PSYCHOLOGY	Y	SP 251	PRIN OF EFFECTIVE PUBLIC SPEAKING	Y
ECON 130	PRINCIPLES OF ECONOMICS (MICRO)	N	*MATH 103	FUNDAMENTALS OF COLLEGE ALGEBRA	N
ASAN 203	PHILIPPINE CULTURE	N	PHIL 110	INTRODUCTION TO DEDUCTIVE LOGIC	N
HWST 107	HAWAII: CENTER OF THE PACIFIC	N	MATH 140	TRIG AND ANALYTIC GEOMETRY	Y
PACS 108	PACIFIC WORLDS: AN INTRO TO PACIFIC ISLANDS STUDIES	N	ICS 111	INTRODUCTION TO COMPUTER SCIENCE I	N
HIST 151	WORLD CIVILIZATION TO 1500	Y	ASTR 110	SURVEY OF ASTRONOMY	N
ASAN 205	CONTEMPORARY PHILIPPINE ISSUES	N	BOT 130	PLANTS IN HAWAII	N
REL 207	UNDERSTANDING BUDDHISM	N	CHEM 161	GENERAL CHEMISTRY I	Y
BIOL 171	INTRODUCTION TO BIOLOGY I	Y	CHEM 162	GENERAL CHEMISTRY II	Y
SOC 100	INTRODUCTION TO SOCIOLOGY	Y	CM 120	INTRODUCTION TO DIGITAL VIDEO	N
ART 101	INTRODUCTION TO THE VISUAL ARTS	N	HSER 100	SELF EXPLORATION	N
ART 107D	INTRODUCTION TO DIGITAL PHOTOGRAPHY	N	PUBA 104	INTRO TO COMM HEALTH	N
ART 112	INTRODUCTION TO DIGITAL ARTS	N	CULN 112	SANITATION AND SAFETY	N
ART 113D	INTRODUCTION TO DIGITAL DRAWING	N	ED 100	INTRO TO EDUCATION AND TEACHING	Y
MUS 107	MUSIC IN WORLD CULTURES	N	TAG 101	ELEMENTARY FILIPINO	N
IS 100	FRESHMAN YEAR SEMINAR	N	FIL 102	ELEMENTARY TAGALOG/FILIPINO PART 2	N
IS 103	INTRO TO COLLEGE	N	ED 284	FOUNDATIONS OF INCLUSION IN TEACHING	Y
ED 285	CLASSROOM MGMT WITHIN THE INSTR PROCESS	Y	PUBA 101	INTRO TO HEALTH CARE ADMINISTRATION	N
HLTH 123	INTRO TO CLINICAL SKILLS & PATIENT CARE	N	HLTH 125	SURVEY OF MEDICAL TERMINOLOGY	N
HLTH 110	MEDICAL TERMINOLOGY	N	MATH 241	CALCULUS I	Y
PHIL 111	INTRODUCTION TO INDUCTIVE LOGIC	N	MATH 242	CALCULUS II	Y
PSY 240	DEVELOPMENTAL PSYCHOLOGY	N	Iedb 100	BLUEPRINT READING	N
WELD 100	WELDING FOR TRADES & INDUSTRY	N	SD 100	THE UNIVERSITY EXPERIENCE	N

*Math 103 is not equivalent to an Algebra 2 credit

For a list of current courses and more information, please visit:

<https://www.waipahuhs-earlycollege.org/>

NEW EARLY COLLEGE COURSES/PROGRAMS

The Waipahu High School McInerny Foundation Early College 3.0 Program has expanded to offer courses/programs which align with the WHS Career Academies. The following courses/programs will be available for SY24-25. The Early College staff will be offering application assistance sessions in Spring 2024 semester to help students apply for these programs. Please see any of the Early College staff in V building (1st floor) if you are interested or have questions.

Leeward Community College:

*Health Information Technology – HIT: (Certificate of Competence) – Upon successful completion, students can participate in LCC Spring commencement.

*Automotive Technology 100

*Interdisciplinary Studies (IS) 105: Mock Interview

Kapiolani Community College:

*Community Health Worker – CHW: (Certificate of Competence) – Upon successful completion, students can participate in KCC Spring commencement

Honolulu Community College:

*IEDB 100 (BluePrint Reading) & WELD 100 (Welding): Introductory courses for various programs at HCC

*Fire Science – Fire 100 & Fire 102: Introductory courses for the Fire Science Program at HCC

Windward Community College:

*Veterinary Technology – ANSC 191 and ANSC 140: Introductory courses for the Vet Tech/Animal Science Program at WCC.

ADVANCED PLACEMENT PROGRAM

Advanced Placement (AP) is a program in the United States and Canada created by the College Board which offers college-level curricula and examinations to high school students. American colleges and universities may grant placement and course credit to students who obtain high scores on the examinations. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

Waipahu High School Advanced Program Courses	
AP US History	AP Biology
AP Eng-Lit/Comp	AP Physics C
AP Eng-Lang/Comp	AP Chemistry
AP Calculus AB	AP Computer Science Principles
AP Calculus BC	AP Spanish
AP Statistics	AP Japanese
AP Physics I	AP Art History
AP Physics II	AP Drawing
AP Environmental Science	

HVLN Hawaii Online Courses (formerly know as E-School)

Through the Hawaii Virtual Learning Network (HVLN), the Department provides standards-based, online classes for secondary students enrolled at any Hawaii public school (including charter schools) in addition to their regular classes. Students in the HVLN Hawaii Online Courses (HVLN HOC) Program are guided through their courses by state-certified teachers utilizing a robust learning management system. HVLN HOC grows access for students who want to take Advanced Placement, Computer Science, or other courses that may not be available at their home campus.

Students are allowed to take up to two courses per semester. Please speak with your school counselor if you are interested in enrolling.

Go here for more information: [HVLN HOC Website](#)

CREDIT RECOVERY CLASSES

Students failing required courses in English, Social Studies, Math and Science have the option enrolling in credit recovery classes offered after school or during the summer. Students taking Credit Recovery classes will be charged a fee, are on a first come, first serve basis and have strict attendance requirements. Not all courses are offered. Please see a counselor for more information on credit recovery.

GEOGRAPHIC EXCEPTION (GE)

Form CHP 13-1 must be filed with Waipahu HS if the student does not live in the Waipahu district. Once the GE is approved, it is valid until the student completes the terminal year at the school.

Go here for more information:

<http://www.hawaiipublicschools.org/ParentsAndStudents/EnrollingInSchool/Pages/Geographic-exceptions.aspx>

COLLEGE ENTRANCE REQUIREMENTS

College and universities differ in their requirements for entrance. Students planning to go to college should study the requirements carefully and plan their high school courses accordingly. Students should confer with their counselor to check requirements for college entrance.

THE ACADEMIES OF WAIPAHU

NCAC Model Academy - Academy of Arts & Communication

Assistant Principal	Ms. Amanda Sarono	amanda.sarono@k12.hi.us	808-307-9555
Counselor	Ms. Jzchana Rivera	jzchana.rivera@k12.hi.us	808-307-9400
Academy Director	Ms. Thelma Madriaga	thelma.madriaga@k12.hi.us	808-307-9555
Academy Director	Ms. Noelle-Lili Edejer	noelle-lili.edejer@k12.hi.us	808-307-9555

Program of Study				
SUBJECT	9 th Grade	10 th Grade	11 th Grade	12 th Grade
LANGUAGE ARTS	English I	English II	English III	English IV AP English Literature
MATH	Algebra I	Geometry I	Algebra II	Senior Level Math Course
SCIENCE	Integrated Science	Biology	Science Elective: Physics, Physical Science, AP Physics	Science Elective: Chemistry
SOCIAL STUDIES	World History	US History	Modern Hawaiian History / Participation In Democracy	Recommended Psy/Soc Anthro/Geog
9th 10th REQUIREMENTS /ELECTIVES	PE-Fitness / PE-Activities	Health: Today & Tomorrow/Career & Life Planning		
ELECTIVES	Fine Arts Elective	Fine Arts Elective	Elective	Elective
Pathways				
PATHWAY: Fashion Design	Foundations of Fashion and Artisan Design	Fashion and Artisan Design 1	Fashion and Artisan Design 2	Fashion & Artisan Design Wk-Base Lrn
PATHWAY: Digital Design (Graphic)	Foundations of Creative Media	Digital Design 1	Digital Design 2	Digital Design Wk-Base Lrn
PATHWAY: Film & Media Production	Foundations of Creative Media	Digital Video Technology	Film & Media Production 1	Film & Media Production 2 or Film Media Prod Wk-Base Lrn

ARTS & COMMUNICATION PATHWAY COURSES

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
<u>PATHWAY: FASHION DESIGN</u>				
Found Fashion Artisan Des	TCO1000	09-12	1	None
Fashion & Artisan Design 1	TCA2000	10-12	1	Found Fashion
Fashion & Artisan Design 2	TCA3000	10-12	1	Fashion 1
Fash & Artisan Des Wk-Base Lrng	TCA4100	12	1	Fashion 2

FOUNDATION FASHION ARTISAN DESIGN TCO1000 1 credit Open to 09-12

Foundations of Fashion & Artisan Design level 1 is an introductory course to students about the various careers in fashion and craftwork design. Students will gain knowledge about how fashion & craft impacts art and will utilize design elements to create simple fashion & craft work artifacts. They will be able to explain the various occupations and necessary steps to advance in various careers. As part of the program to show mastery of the subject, students are required to create a digital portfolio providing evidence of course standards and readiness to advance to the next level.

FASHION & ARTISAN DESIGN 1 TCA2000 1 credit Open to 11-12

Fashion and Artisan Design 1 is the second course in Fashion and Artisan design which will introduce students to a typical design process, artistic impressions, and small business marketing. Upon completing this course students will show proficiency by creating a digital portfolio which will include: explaining artistic intent, demonstrating basic fashion and craftwork applications and applied mathematics. It will also include freehand and CAD design process and basic business marketing along with communication. As part of the program to show mastery of the subject, students are required to create a digital portfolio providing evidence of course standards and readiness to advance to the next level.

FASHION & ARTISAN DESIGN 2 TCA3000 1 credit Open to 11-12

Fashion and Artisan Design 2 is a 3rd course in Fashion and Artisan design. This course will prepare students for advance work as a small business in the field of fashion and craftwork. After completing the course, students will be able to use small business concepts to produce and showcase Fashion and craftwork. As part of the program to show mastery of the subject, students are required to create a digital portfolio providing evidence of course standards and readiness to advance to the next level.1000

FASHION & ARTISAN DES WK-BASE LEARN TCA4100 1 credit Open to 11-12

Fashion and Artisan Design work based learning is the capstone that completes the program of study. Work based learning is for students to experience and to demonstrate student's understanding of utilizing the professional skills learned and gives students hands-on practical learning. Upon completing this course, students will Be able to discern multiple pathways to a career in fashion and craftwork design, apply to a post secondary program, applying for a job. Instructions will be in the classroom along with work based learning placement (internship) Students will complete their digital portfolio providing evidence of course standards and readiness to advance to the next level.

PATHWAY: DIGITAL DESIGN (GRAPHIC)

Foundation of Creative Media	TCC1000	09-12	1	None
Digital Design 1	TCD2000	10-12	1	Found Creative Media
Digital Design 2	TCD3000	10-12	1	Digital Design 1
Digital Design Wk-Base Lrn	TCD4100	12	1	Digital Design 2

FOUNDATION OF CREATIVE MEDIA TCC1000 1 credit Open to 09-12

Foundations of Creative Media is an introductory course designed to inform students about careers in creative media, including digital design and digital film production. This Level 1 course serves as the foundation course for both the Digital Design and Film & Media Production programs of study. Upon completion of the course, a proficient student will be able to explain what comprises the creative media industry sector, explain principles of digital design and its influences, demonstrate basic knowledge of digital camera and video equipment, and create a digital photo collection using design and equipment knowledge. A student will also be able to describe various occupations and outline the steps necessary to advance in specific careers. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

DIGITAL DESIGN 1 TCD2000

1 credit

Open to: 10-12

Digital Design 1 is the second course in the Digital Design program of study designed to introduce students to the digital design process and the creation of basic design work and page layouts reflective of the process. Upon completion of the course, a proficient student will be able to explain artistic intent and influence, summarize ADA guidance, apply design software techniques, conceptualize and create photographs and illustrations of increasing complexity, and produce basic single and multipage layouts. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

DIGITAL DESIGN 2 TCD3000

1 credit

Open to: 10-12

Digital Design 2 is the third course in the Digital Design program of study designed to prepare students for advanced design work in the field of digital design. Students will utilize various design software (development and editing) programs and camera/lighting equipment in varying degrees of complexity to create web and works. Upon completion of the course, a proficient student will be able to create a basic web page layout and produce a digital artwork collection to showcase. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

DIGITAL DESIGN WK-BASE LRN TCD4100

1 credit

Open to: 12

This course provides advanced classroom and laboratory experiences in the major areas of graphic design and production. This course includes an in depth study of the elements and principles of design, layout, photography, legal and ethical issues, advertising, and production techniques. Emphasis is on the creation of refined and targeted designs that serve a defined purpose and audience. Students work with clients and deliver tangibles at the end of the design process.

PATHWAY: FILM AND MEDIA PRODUCTION

Foundation of Creative Media	TCC1000	09-12	1	None
Digital Video Technology	TCV2000	10-12	1	Found Creative Media
Film & Media Production 1	TCP3000	10-12	1	Digital Vid Tech
Film & Media Production 2	TCP4000	12	1	Film Media Prod 1
Film & Media Prod Wk-Base Lrn	TCP4100	12	1	Film Media Prod 1

FOUNDATION OF CREATIVE MEDIA TCC1000

1 credit

Open to 09-12

Foundations of Creative Media is an introductory course designed to inform students about careers in creative media, including digital design and digital film production. This Level 1 course serves as the foundation course for both the Digital Design and Film & Media Production programs of study. Upon completion of the course, a proficient student will be able to explain what comprises the creative media industry sector, explain principles of digital design and its influences, demonstrate basic knowledge of digital camera and video equipment, and create a digital photo collection using design and equipment knowledge. A student will also be able to describe various occupations and outline the steps necessary to advance in specific careers. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

DIGITAL VIDEO TECHNOLOGY TCV2000

1 credit

Open to: 10-12

Digital Video Technology is the second course in the Film & Media Production program of study designed to introduce students to the post-production process for digital film/video. Upon completion of the course, a proficient student will be able to demonstrate basic digital video and audio recording skills, video and audio uploading and editing techniques, and explain the film production process from concept to completion. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

FILM & MEDIA PRODUCTION 1 TCP3000

1 credit

Open to 10-12

Film & Media Production 1 is the third course in the Film & Media Production program of study designed to introduce students to industry and equipment skills used in film production. Upon completion of the course, a proficient student will demonstrate basic production plan process skills including script writing, storyboard creation, stage setting, lighting equipment and video/audio recording and production editing. A proficient student will also demonstrate basic safety knowledge and protocols that are followed throughout a production process. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

FILM & MEDIA PRODUCTION 2 TCP4000

1 credit

Open to 12

Film & Media Production 2 is the fourth course in the Film & Media Production program of study designed to have students produce an original digital short film. Students will utilize production equipment and editing software in varying degrees of complexity. Upon completion of the course, a proficient student will be able to create a script, design a storyboard, create a complete film production plan, and implement the plan to create an original creative work. As part of a student's program of study progression, the student will maintain a digital program of study portfolio providing evidence of mastery of the course standards and readiness to advance and complete the program of study.

FILM & MEDIA PROD WK-BASE LRN TCP4100

1 credit

Open to 12

Film & Media Production: WBL is the capstone course in the Film & Media Production program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned throughout this program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in film and media production. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in film and media production, necessary steps toward applying for a postsecondary program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement, such as an internship. The student will finalize a digital course portfolio providing evidence of mastery of the program standards and readiness for postsecondary and the workforce.

NCAC MODEL ACADEMY - ACADEMY OF PROFESSIONAL AND PUBLIC SERVICES

Assistant Principal	Ms. Tara Soleta	tara.soleta@k12.hi.us	808-307-9555
Counselor(A-L)	Ms. Trixia Soria	trixia.soria@k12.hi.us	808-307-9400
Counselor(M-Z)	Ms. Sherri Shioi	sherri.shioi@k12.hi.us	808-307-9400
Academy Director	Mr. Ian Ferris	ian.ferris@k12.hi.us	808-307-9452
Academy Director	Ms. Kelsy Kai-Yamamoto	kelsy.kai-yamamoto@k12.hi.us	808-307-9472

Program of Study				
SUBJECT	9 th Grade	10 th Grade	11 th Grade	12 th Grade
LANGUAGE ARTS	English I	English II	English III	English IV
MATH	Algebra I	Geometry	Algebra II	Senior Level Math Course
SCIENCE	Integrated Science	Biology	Science Elective: Chemistry, Physics, AP Chemistry, AP Environmental Science, AP Biology, AP Physics	Science Elective: Chemistry, Physics, AP Chemistry, AP Environmental Science, AP Biology, AP Physics
SOCIAL STUDIES	World History	US History	Modern History of Hawaii / Participation In Democracy	Recommended Psychology/Sociology
9th & 10th REQUIREMENTS	Physical Education	Health: Today & Tomorrow/Career & Life Planning		
NON-CTE RECOMMENDED ELECTIVES	World Language, Fine Arts, AVIID, JROTC	World Language, Fine Arts, AVID, JROTC	World Language, Fine Arts, AVID, JROTC	World Language, Fine Arts, AVID, JROTC
Pathways (for Class of 2025 & 2026)				
PATHWAY	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Business	Professional and Public Services Core (APPS)	Foundations of Business and Marketing	CTE Honors	
			Principles of Finance and Economics, Accounting, Financial Management	Principles of Finance and Economics, Accounting, Financial Management
			STEM Honors/CTE Honors/Pathway Completion (Recommended)	
			Princ. of Finance and Economics and Financial Management	Accounting and Financial Management: Work-Based Learning
Culinary	Foundations of Culinary (B)	Culinary Arts: Food Preparation and Kitchen & Restaurant Operations	Advanced Culinary Arts: Pastry and Savory	
Law & Justice	Foundations of Law & Public Safety	Law Enforcement Services 1	Law Enforcement Services 2 and/or LES: Work-Based Learning or Pre-Law 1	
		Pre-Law 1	Law Enforcement Services 1	
Teacher Education	Foundations of Education	Teaching as a Profession 1	Teaching as a Profession 2 STEM Capstone	

Pathways (for Class of 2027 & 2028)				
PATHWAY	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Business	Foundations of Business and Marketing	Principles of Finance and Economics	CTE Honors	
			Accounting	Financial Management
			STEM Honors/CTE Honors/Pathway Completion (Recommended)	
			Accounting and Financial Management	Financial Management: Work Based Learning
Culinary	Foundations of Culinary (A)	Culinary Arts: Food Preparation	Advanced Culinary Arts: Pastry and Savory and Kitchen and Restaurant Operations	Culinary Arts: Work-Based Learning or Kitchen and Restaurant Operations or Advanced Culinary Arts: Pastry and Savory
Law & Justice	Foundations of Law & Public Safety	Law Enforcement Services 1	Pre-Law 1	Law Enforcement Services 2 and/or Law Enforcement Services: Work-Based Learning
		Pre-Law 1	Law Enforcement Services 1	Pre-Law 2 and/or Law Enforcement Services: Work-Based Learning
Teacher Education	Foundations of Education	Teaching as a Profession 1	Teaching as a Profession 2	Teaching As Profession: WorkBased Learning

ACADEMY OF PROFESSIONAL & PUBLIC SERVICES COURSES

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
PATHWAY: BUSINESS (Mr. Todd Nakayama, E-7, Mr. Brent Murakami, E-8)				
Found Business & Marketing	TBB1000	09	1	None
Principles of Finance & Economics	TBP2000	10-11	1	Marketing
Accounting	TBT3000	11-12	1	Prin of Fin & Econ
Financial Management	TBF4000	11-12	1	Prin of Fin & Econ
Financial Mgmt Wk-Base Lrn	TBF4100	12	1	Financial Management

FOUNDATIONS OF BUSINESS & MARKETING TBB1000 1 credit Open to: 09

Foundations of Business & Marketing is an introductory course designed to inform students about careers in various sectors of business, as well as basic business concepts. This Level 1 course serves as the foundation course for the Financial Management program of study. Upon completion of the course, a proficient student will have foundational knowledge of business and business-related occupations and concepts, including management, finance, marketing, and entrepreneurship and how each intertwines.

PRINCIPLES OF FINANCE & ECONOMICS TBP2000 1 credit Open to: 10-11

Principles of Finance & Economics is the second course in the Financial Management program of study designed to inform students about the basics of economics, finance, and accounting. Upon completion of the course, a proficient student will have a basic knowledge of finance and economics, accounting principles and taxation issues, and consumer credit and protection. Work-Base Learning: Students will manage the Hawai'i USA Federal Credit Union - Student Operated Credit Union at Waipahu High School. Through this experience they will interact with members as well as promote financial wellness throughout the entire school.

ACCOUNTING TBT3000

1 credit Open to: 11-12

Accounting is the third course in the Financial Management program of study designed to inform students about basic procedures of accounting. Upon completion of the course, a proficient student will demonstrate various accounting and basic business transactions, apply the full accounting cycle, analyze financial data, and explain ethical behavior in the accounting field. Work-Base Learning: Students will be certified by the Internal Revenue Service (IRS) through the Volunteer Income Tax Assistance Program to provide federal and state tax return preparation services in our local community and Waipahu High School.

FINANCIAL MANAGEMENT TBF4000

1 credit Open to: 11-12

Financial Management is the fourth course in the Financial Management program of study designed to inform students about investments and retirement planning. Students prepare for the world of financial investment by examining principles of investment portfolio, investment assets, and participating in a simulated investment challenge. Upon completion of the course, a proficient student will be able to create financial goals, explain multiple types of investments and associated risks, and create diverse investment portfolios based on investor goals and specific stages in life. Work-Base Learning: Students will create their strategy and track their performance.

FINANCIAL MGMT WK-BASE LRNG TBF4100

1 credit Open to: 12

Financial Management: WBL is the capstone course in the Financial Management program of study for STEM honors. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned throughout this program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to aspects of financial management and related fields of occupation. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in banking/finance and financial advisement, necessary steps toward applying for a postsecondary program, necessary steps toward applying for a job, and reflect on program goals and aspirations. SY2025 and SY2026 can take this course concurrently with Financial Management. Required: Financial Management

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: CULINARY</u> (Mrs. Elaine Matsuo W-302A, Mary-Julie Madarang W-302, David Dela Cruz, I-4)				
Foundations of Culinary	TTU1000	09-12	1	None
Culinary Arts: Food Prep	TTP2000	10-12	1	Found of Culinary
Adv Culinary Arts Pastry Sav	TTV3000	11-12	1	Food Prep
Kitchen Restaurant Operations	TTR4000	11-12	1	Food Prep
Culinary Arts Wk-Base Learn	TTR4100	12	1	Food Prep

FOUNDATIONS OF CULINARY TTU1000

1 credit Open to: 09-12

Foundations of Culinary Arts is an introductory course designed to inform students about careers in the food prep and service industries or related fields, basic nutritional and cooking concepts, and the history and influence of culture on food. This Level 1 course serves as the foundation course for the Culinary Arts program of study. Upon completion of the course, a proficient student will demonstrate proper safety protocols in a commercial kitchen and proper use of small and large equipment and supplies. The student will also correctly convert measures and have foundational knowledge of nutrition and cooking techniques and the role of culture in food creation. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

CULINARY ARTS FOOD PREP TTP2000

1 credit Open to: 10-12

Culinary Arts: Food Preparation is the second course in the Culinary Arts program of study designed to inform and expose students to various basic food preparation methods and considerations found in commercial kitchens and restaurants. Upon completion of this course, a proficient student will possess a working knowledge of commercial kitchen safety and sanitation, menu planning, influence of culture on cuisine, basic cooking principles, food preparation skills and methods, and basic platter and table preparation. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study. Must be taken concurrently with Kitchen Restaurant Operations.

ADVANCED CULINARY ARTS: PASTRY & SAVORY TTV3000 1 credit Open to: 11-12
Advanced Culinary Arts: Pastry and Savory is the third course in the Culinary Arts program of study designed to further students' practice with food preparation in the culinary industry. Upon completion of the course, a proficient student will be able to demonstrate safe practices in a commercial kitchen, the fundamentals of pastry/dessert creations and the fundamentals of meat preparation. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

KITCHEN RESTAURANT OPERATIONS TTR4000 1 credit Open to: 11-12
Kitchen & Restaurant Operations is the fourth course in the Culinary Arts program of study and designed to prepare students for entry into the field of foodservice and culinary cuisine. Upon completion of the course, a proficient student will demonstrate an understanding of risk management, front- and back-of-the-house operations, and the hypothetical management of a culinary event from start to finish. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study. Must be taken concurrently with Culinary Arts Food Prep.

CULINARY ARTS WK-BASE LEARN TTR4100 1 credit Open to: 12
Culinary Arts: WBL is the capstone course in the Culinary Arts program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in food prep and service, restaurant operations, and related fields of occupation. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in culinary arts, necessary steps toward applying for a postsecondary program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement, such as an internship. The student will finalize a digital course portfolio providing evidence of mastery of the program standards and readiness for postsecondary and the workforce.

PATHWAY: LAW & JUSTICE (Mrs. Kelsy Kai-Yamamoto, I-5)

Foundations of Law & Public Safety	TLL1000	09	1	none
Law Enforcement Services 1	TLE2000	10	1	TLL1000
Pre-Law 1	TLL2000	10-12	1	TLL1000
Law Enforcement Services 2	TLE3000	11	1	TLE2000
Pre-Law 2	TLL3000	11-12	1	TLL2000
Law Enforce Serv Wk-Base Lrn	TLE4100	11	1	TLE2000

FOUNDATIONS OF LAW & PUBLIC SAFETY TLL1000 1 credit Open to: 09

Foundations of Law and Public Safety is an introductory course designed to inform students about careers in law enforcement, legal, and correctional systems. This Level 1 course serves as the foundation course for the Law Enforcement Services and Pre-Law programs of study. Upon completion of the course, a proficient student will have foundational knowledge of local, state, and federal laws, concepts of criminal behavior and prevention, the judicial process and an understanding of key roles and responsibilities for occupations in Law Enforcement Services and law. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

LAW ENFORCEMENT SERVICES 1 TLE2000 1 credit Open to: 10

This course is designed to introduce students to the different aspects of criminal investigations which include forensic science, chemistry, biology, medical-legal procedures, policing protocol and careers in criminal justice. Focus will include curriculum in crime scene processing, analysis and documentation. Students will explore a variety of fields of study within forensic science and how they apply to criminal justice. Students will be taught structures of law enforcement and the justice system as it applies to criminal investigations and forensic science disciplines. The curriculum will build professional skills that are relevant and applicable in a variety of criminal justice career fields. Students will also develop leadership skills and professionalism.

PRE-LAW 1 TLL2000

1 credit

Open to: 10-12

Pre - Law 1 is the second course in the Pre - Law program of study designed to inform students about the legal system and relevant legal careers. Upon completion of the course, a proficient student will be able to describe required steps toward a career in law, the foundations of the legal system, basic constitutional rights and protections, as well as concepts in civil, tort, and immigration law. As part of a student's program of study progression, the student will maintain a digital program of study portfolio providing evidence of mastery of the course standards and readiness to advance and complete the program of study.

LAW ENFORCEMENT SERVICES 2 TLE3000

1 credit

Open to: 11

The course curriculum will be career and higher education focused; students will be exposed to scientific protocol and technology specific to death investigations, criminal prosecution including evidentiary procedure and related jobs such as medical examiners, pathologists, forensic anthropologists, criminal lawyer, forensic scientists in the areas of DNA, serology, toxicology & forensic chemistry, FBI agent, forensic science technicians, medical examiner investigators, among others through lecturing, guest speakers, Project Based Learning, & work based learning experiences. The goal is to expose students to career specific skills and learning experiences that will prepare them for post-secondary and career options within the medicolegal field.

PRE-LAW 2 TLL3000

1 credit

Open to: 11-12

Pre - Law 2 is the third course in the Pre - Law program of study designed to inform students about concepts in the field of law. Upon completion of the course, a proficient student will be able to describe criminal intent, trial procedures, sentencing, appeals, and punishment, as well as concepts in business, commercial, and family law. As part of a student's program of study progression, the student will maintain a digital program of study portfolio providing evidence of mastery of the course standards and readiness to advance and complete the program of study.

LAW ENFORCEMENT SERVICES WK-BASE LRN TLE4100

1 credit

Open to: 12

Law Enforcement Services Work-Based Learning is the capstone course in the Law Enforcement Services program of study. It is intended to provide a practicum experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The practicum experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to aspects of the criminal justice system and field of occupation. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in the criminal justice system, necessary steps toward applying for a postsecondary program or training (Academy), necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning Preparation placement, such as an internship. The student will finalize a digital course portfolio providing evidence of mastery of program standards and readiness for postsecondary and the workforce.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
PATHWAY: TEACHER EDUCATION (Mr. Russell Park, P-16)				
Foundations of Education	TEF1000	09-12	1	None
Teaching as a Profession 1	TET2000	10-12	1	Foundations of Education
Teaching as a Profession 2	TET3000	11	1	Teaching as Profession 1
Teaching as a Prof Wk-Base Lrn	TET4100	12	1	Teaching as Profession 2

FOUNDATIONS OF EDUCATION TEF1000 1 credit Open to: 09-12

Foundations of Education is an introductory course designed to inform students about careers in education and learning support professions including teaching, counseling, and areas of specialization in education. This course serves as the foundation course for the Teaching as a Profession (PreK-12) (TAP) and Learning Support Professionals (LSP) programs of study. Upon completion of the course, a proficient student will have foundational knowledge of human development, understanding of course standards and curriculum, the history of public education, and required ethical and professional responsibilities. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

TEACHING AS A PROFESSION 1 TET2000 1 credit Open to: 10-12

Teaching as a Profession 1 is the second course in the Teaching as a Profession (PreK-12) (TAP) program of study designed for students who are interested in teaching in the classroom. This course covers components on instruction, teaching strategies, student learning, English Learner and special populations, and educational technology. Upon completion of the course, a proficient student will have a fundamental understanding of the trajectory of learning and be prepared for the application of these concepts. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study. Recommend: Foundations of Education

TEACHING AS A PROFESSION 2 TET3000 1 credit Open to: 11-12

Teaching as a Profession 2 is the third course in the Teaching as a Profession (PreK-12) (TAP) program of study designed for students who are interested in teaching in the classroom. This course covers components of instruction and student learning, classroom management, and concepts of higher-order thinking. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study. Recommend:

TEACHING AS A PROFESSION WORK-BASED LEARN TET4100 1 credit Open to: 12

Teaching as a Profession Work-Based Learning is the capstone course in the Teaching as a Profession (PreK-12) (TAP) program of study. It is intended to provide a practicum experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The practicum experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in PreK-12 education. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in PreK-12 education, necessary steps toward applying for a postsecondary credentialed program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning Preparation placement, such as an internship. The student will finalize a digital course portfolio providing evidence of mastery of program standards and readiness for postsecondary and the workforce.

NCAC MODEL ACADEMY – ACADEMY OF HEALTH & SCIENCES

Assistant Principal	Mr. Kel Hirohata	<u>Kel.Hirohata@k12.hi.us</u>	808-307-9555
Counselor A-N	Mrs. Natalie Yonemura	<u>Natalie.Yonemura@k.12.hi.us</u>	808-307-9400
Counselor O-Z, AVID	Mrs. Stacey Suzuki	<u>Stacey.Suzuki@k12.hi.us</u>	808-307-9400
Academy Director	Ms. Hayley McDermott	<u>Hayley.McDermott@k12.hi.us</u>	808-307-9555

PROGRAM OF STUDY				
SUBJECT	9th Grade	10th Grade	11th Grade	12th Grade
LANGUAGE ARTS	English I	English II	English III	English IV
MATH	Algebra I or Geometry I	Geometry I or Algebra II	Algebra II or Trigonometry/PreCal	<u>Suggested Senior Math Courses:</u> Trigonometry/PreCal Calculus AP Calculus AP Statistics
SCIENCE	Biology	Chemistry	<u>Suggested Science Elective:</u> AP Biology AP Chemistry Human Physiology Physics	<u>Suggested Science Elective:</u> AP Chemistry AP Biology Human Physiology Physics
SOCIAL STUDIES	World History	US History	Modern Hawaiian History .5 cr / Participation in Democracy .5 cr	<u>Suggested Social Studies Elective:</u> Psychology .5 cr /Sociology .5 cr
9 th 10 th REQUIREMENTS and/or ELECTIVES	PE-Fitness .5 cr / PE-Activities .5 cr	Health .5 / Guidance .5	<u>Suggested Elective:</u> Directed Studies-AP World Language or Fine Arts	<u>Suggested Elective:</u> Directed Studies-AP World Language or Fine Arts
ELECTIVES	<u>Suggested Elective:</u> World Language or Fine Arts	<u>Suggested Elective:</u> World Language or Fine Arts	<u>Suggested Elective:</u> Ilokano for Health Services	<u>Suggested Elective:</u> Work Based Learning (WBL)
DIAGNOSTIC SERVICES & MEDICAL BIOTECHNOLOGY/ HUMAN PERFORMANCE & KINESIOLOGY / NURSING SERVICES				
CTE COURSE SEQUENCE				
PATHWAY: <i>DIAGNOSTIC SERVICES & MEDICAL BIOTECHNOLOGY</i>	Foundations of Health Services	Advanced Health Services	Diagnostic Services & Medical Biotechnology 1 (Diagnostic Services 1)	Diagnostic Services & Medical Biotechnology 2 and/or Work Based Learning (WBL)
PATHWAY: <i>HUMAN PERFORMANCE & KINESIOLOGY</i>	Foundations of Health Services	Advanced Health Services	Human Performance & Kinesiology 1 (Principles Therapeutic Svc s)	Human Performance & Kinesiology 2 (Kinesiology) and/or Work Based Learning (WBL)
PATHWAY: <i>NURSING SERVICES</i>	Foundations of Health Services	Advanced Health Services	Nursing Services 1	Nursing Services 2 and/or Work Based Learning (WBL) or Medical Assisting

HEALTH & SCIENCES PATHWAY COURSES

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: DIAGNOSTIC SERVICES & MEDICAL BIOTECHNOLOGY</u>				
Foundations of Health Services	THF1000	09	1	None
Advanced Health Services	THA2000	10	1	THF1000, Biology
Diagnostic Services 1 (aka Diagnostic Services & Medical Biotechnology 1)	THD3000	11, 12	1	THA2000
Diagnostic Services 2 (aka Diagnostic Services & Medical Biotechnology 2)	THD4000	11, 12	1	THA3000
Nursing Svcs Wk-Base Learn (aka Health Services Wk-Base Learning 1)	THS4100	11, 12	1	THD3000

FOUNDATIONS OF HEALTH SERVICES THF1000 1 credit Open to: 09

Foundations of Health Services is an introductory course designed to inform students about careers in the Health Services field, as well as basic medical skills and terminology. This Level I course serves as the foundation course for the Nursing Services, Human Performance & Kinesiology, and Diagnostic Services & Medical Biotechnology programs of study. Upon completion of the course, a proficient student will have foundational knowledge of various medical careers, foundational healthcare skills, safety skills, traditional Hawaiian health care philosophies, and ethics. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ADVANCED HEALTH SERVICES THA2000 1 Credit Open to: 10

This sophomore level course will give an overview of the body systems and their functions. Topics to include: Medical terminology, cells, basic skeletal system, basic muscular system, basic nervous system, cardiovascular system, respiratory system, digestive system, excretory system, urinary system, and nutrition.

DIAGNOSTIC SERVICES 1 THD3000 1 Credit Open to: 11, 12

(aka **DIAGNOSTIC SERVICES & MEDICAL BIOTECHNOLOGY 1**)

This is the first course in the diagnostic services program of study and will include subjects such as: laboratory techniques, research methods, access into online scientific databases, identifying infectious agents, imaging techniques, and phlebotomy. As part of this course you will complete a project in partnership with Rutgers University in the research of duckweed DNA. This research has potential to get you published on an international database. This course will rely heavily on your knowledge of genetics and ability to work independently.

DIAGNOSTIC SERVICES 2 THD4000 1 Credit Open to: 11, 12

(aka **DIAGNOSTIC SERVICES & MEDICAL BIOTECHNOLOGY 2**)

This course is the second level of the diagnostic services program of study and will include subjects such as: advanced laboratory skills, genomics research, advanced phlebotomy, advanced diagnostic imaging, and reading ECGs. If you are interested in research, working for a lab, or performing lab work on human samples this class is for you. This course will rely heavily on your knowledge of genetics and microbiology concepts.

NURSING SERVICES WK-BASE LEARNING THS4100 1 Credit Open to: 12

(aka **HEALTH SERVICES WORK-BASED LEARNING**)

This WBL course is the capstone course for all 3 AHS pathways: Diagnostic Services & Medical Biotechnology, Human Performance & Kinesiology, and Nursing Services. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills throughout the program of study. The WBL experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to health related fields of occupation. Instruction will be delivered through the classroom environment in conjunction with a WBL placement, such as an internship (based on availability and student proficiency).

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: HUMAN PERFORMANCE & KINESIOLOGY</u>				
Foundations of Health Services	THF1000	09	1	None
Advanced Health Services	THA2000	10	1	THF1000, Biology
Principles Therapeutic Svcs (aka Human Performance & Kinesiology 1)	THP3000	11, 12	1	THA2000
Kinesiology (aka Human Performance & Kinesiology 2)	THY4000	12	1	THP3000
Nursing Svcs Wk-Base Learn (aka Health Services Wk-Base Learning 1)	THS4100	12	1	THP3000

FOUNDATIONS OF HEALTH SERVICES THF1000

1 credit Open to: 09

Foundations of Health Services is an introductory course designed to inform students about careers in the Health Services field, as well as basic medical skills and terminology. This Level I course serves as the foundation course for the Nursing Services, Human Performance & Kinesiology, and Diagnostic Services & Medical Biotechnology programs of study. Upon completion of the course, a proficient student will have foundational knowledge of various medical careers, foundational healthcare skills, safety skills, traditional Hawaiian health care philosophies, and ethics. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ADVANCED HEALTH SERVICES THA2000

1 Credit Open to: 10

This sophomore level course will give an overview of the body systems and their functions. Topics to include: Medical terminology, cells, basic skeletal system, basic muscular system, basic nervous system, cardiovascular system, respiratory system, digestive system, excretory system, urinary system, and nutrition.

PRINCIPLES THERAPEUTIC SVCS THP3000

1 credit Open to: 11-12

(aka HUMAN PERFORMANCE & KINESIOLOGY 1)

This course is designed for the students interested in Human Performance and Kinesiology. It is an introductory course that focuses on body and fitness. It is designed to inform students about therapeutic services and various treatments and procedures. Upon completion of the course, a student will be able to recognize disorders and/or injuries to the human body and create a basic treatment plan for the relevant issue using appropriate treatment modalities.

Recommend: Health Core/Foundations of Health Services, Human Physiology/Advanced Health Services.

KINESIOLOGY THY4000

1 credit Open to: 12

(aka **HUMAN PERFORMANCE & KINESIOLOGY 2**)

This course is designed for students interested in Human Performance and Kinesiology. This course will inform students about exercise physiology and various treatments and procedures that can be performed. Students will learn the physiology of the body, perform fitness measures, and develop an exercise and fitness approach that can be implemented. It will also advance students' understanding of relationships among movement, exercise, and skills that occur in the contexts of development, learning, rehabilitation, and training. Required: Completion of Therapeutic Services/Kinesiology 1 (THP3000)

NURSING SERVICES WK-BASE LEARNING THS4100

1 Credit Open to: 12

(aka **HEALTH SERVICES WORK-BASED LEARNING**)

This WBL course is the capstone course for all 3 AHS pathways: Diagnostic Services & Medical Biotechnology, Human Performance & Kinesiology, and Nursing Services. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills throughout the program of study. The WBL experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to health related fields of occupation. Instruction will be delivered through the classroom environment in conjunction with a WBL placement, such as an internship (based on availability and student proficiency).

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: NURSING SERVICES</u>				
Foundations of Health Services	THF1000	09	1	None
Advanced Health Services	THA2000	10	1	THF1000, Biology
Nursing Services 1	THS3000	11-12	1	THA2000
Nursing Services 2	THS4000	12	1	THA3000
Nursing Svcs Wk-Base Learn (aka Health Services Wk-Base Learning 1)	THS4100	12	1	THP3000

FOUNDATIONS OF HEALTH SERVICES THF1000 1 credit Open to: 09

Foundations of Health Services is an introductory course designed to inform students about careers in the Health Services field, as well as basic medical skills and terminology. This Level I course serves as the foundation course for the Nursing Services, Human Performance & Kinesiology, and Diagnostic Services & Medical Biotechnology programs of study. Upon completion of the course, a proficient student will have foundational knowledge of various medical careers, foundational healthcare skills, safety skills, traditional Hawaiian health care philosophies, and ethics. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ADVANCED HEALTH SERVICES THA2000 1 Credit Open to: 10

This sophomore level course will give an overview of the body systems and their functions. Topics to include: Medical terminology, cells, basic skeletal system, basic muscular system, basic nervous system, cardiovascular system, respiratory system, digestive system, excretory system, urinary system, and nutrition.

NURSING SERVICES 1 THS3000 1 credit Open to: 11-12

This course is designed for students interested in healthcare and health careers. Using the anatomical systems as the framework, students will learn about identifying common health problems and their treatment. Students will learn about the roles of various healthcare providers, as well as skills and information common to all health careers. CPR, First Aid, communication, professionalism, and other essential skills will be covered.

NURSING SERVICES 2 THS4000 1 credit Open to: 12

This course is designed for students interested in healthcare and health careers. This course helps to prepare students to develop skills necessary for a career in nursing, including awareness of varying levels of occupations and credentials available in the field. Upon completion of this course, students will be able to demonstrate patient care and wellness techniques, as well as basic nursing responsibilities associated with various healthcare facilities.

NURSING SERVICES WK-BASE LEARNING THS4100 1 Credit Open to: 12

(aka **HEALTH SERVICES WORK-BASED LEARNING**)

This WBL course is the capstone course for all 3 AHS pathways: Diagnostic Services & Medical Biotechnology, Human Performance & Kinesiology, and Nursing Services. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills throughout the program of study. The WBL experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to health related fields of occupation. Instruction will be delivered through the classroom environment in conjunction with a WBL placement, such as an internship (based on availability and student proficiency).

NCAC MODEL ACADEMY – ACADEMY OF NATURAL RESOURCES

Assistant Principal	Mr. Matthew Mitsuyuki	matthew.mitsuyuki@k12.hi.us	808-307-9555
Counselor	Ms. Rebecca Sanborn	rebecca.sanborn@k12.hi.us	808-307-9400
Academy Director	Ms. Sherry Tenn	sherry.tenn@k12.hi.us	808-307-9463
Academy Director	Ms. Rachel Domingo-Awo	rachel.domingo@k12.hi.us	808-307-9425

Recommended Program of Study				
SUBJECT	9th Grade	10th Grade	11th Grade	12th Grade
LANGUAGE ARTS	English I	English II	English III	English IV
MATH	Algebra I	Geometry	Algebra II	Senior Level Math Course
SCIENCE	Integrated Science	Biology	Science Elective: Chemistry, Marine Science, or AP Environmental Science	Science Elective: Chemistry, Marine Science, or AP Environmental Science
SOCIAL STUDIES	World History	US History	Modern Hawaiian History/ Participation in a Democracy	Anthropology/Geography (Recommended Elective)
RECOMMENDED ELECTIVES	Physical Education	Health: Today & Tomorrow/Career & Life Planning	World Language Or Fine Arts Elective	Elective
SUGGESTED ELECTIVES	World Language Or Fine Arts	World Language Or Fine Arts Elective	Elective	Elective
PATHWAYS				
Food Systems	Foundation of Agriculture, Food, and Natural Resources	Principles Food Production	Food Products and Processing Systems 1	Food Production Safety WBL
Natural Resources Business	Foundation of Agriculture, Food, and Natural Resources	Agriculture Food Production Business 1	Agriculture Food Production Business 2	Agriculture Food Production Business Wk-Base Learning
Natural Resources Management	Foundation of Agriculture, Food, and Natural Resources	Natural Resources and Wildlife Management 1	Natural Resources and Wildlife Management 2	Natural Resource Management Wk-Base Learning

NATURAL RESOURCES PATHWAY COURSES

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: FOOD SYSTEMS</u>				
Foundation of Agriculture, Food, And Natural Resources	TAO1000	09	1	None
Principles of Food Production	TAP2000	10	1	Found of Ag
Food Products & Process Sys 1	TAD3000	11	1	Princ of Food Prod
Food Systems Wk-Base Learn	TAD4100	12	1	Food Prod 1

FOUNDATION OF AGRICULTURE, FOOD, & NATURAL RESOURCES TAO1000

1 credit Open to: 09-12

Foundations of Agriculture, Food, & Natural Resources is an introductory course designed to inform students about careers in agriculture and understand the important role that agriculture plays in the twenty-first century. This Level I course serves as the foundation course for the Animal Systems, Food Systems, Natural Resources Business, and Natural Resources Management programs of study. Upon completion of the course, a proficient student will have foundational knowledge of various agriculture-related career fields, ecosystems, plant systems, animal systems, and the reproduction systems of plants and animals.

PRINCIPLES OF FOOD PRODUCTION TAP2000

1 credit Open to: 10

Principles of Food Production is the second course in the Food Systems program of study designed to inform students designed to provide students with the knowledge and skills pertaining to plant and animal structural anatomy, systems physiology, genetics, and biotechnology. Upon completion of this course, a proficient student will have developed basic skills and knowledge in the economics of production, and other management approaches associated with plant and animal production, including learning foundational Hawaiian traditions and values of honoring and conserving the land and its resources.

FOOD PRODUCTS & PROCESS SYSTEMS 1 TAD3000

1 credit Open to: 11

Students will have basic knowledge of the history of agriculture and food production related business in Hawaii, the process of creating a sustainable product, start-up process to creating a business and the importance of food safety and sanitation.

FOOD SYSTEMS WK-BASE LEARN TAD4100

1 credit Open to: 12

Food Systems: WBL is the capstone course in the Food Systems program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in food systems. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in food systems, necessary steps toward applying for a postsecondary credentialed program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement, such as an internship.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: NATURAL RESOURCES MANAGEMENT</u>				
Foundation of Agriculture, Food, And Natural Resources	TAO1000	09	1	None
Natrl Res and Wildlife Mgmt 1	TAT2000	10	1	Found of Ag
Natrl Res and Wildlife Mgmt 2	TAT3000	11	1	NRW Mgmt
Natrl Res Mgmt Wk-Base Learn	TAH4100	12	1	NRW Mgmt

FOUNDATION OF AGRICULTURE, FOOD, & NATURAL RESOURCES TAO1000

1 credit Open to: 09-12

Foundations of Agriculture, Food, & Natural Resources is an introductory course designed to inform students about careers in agriculture and understand the important role that agriculture plays in the twenty-first century. This Level I course serves as the foundation course for the Animal Systems, Food Systems, Natural Resources Business, and Natural Resources Management programs of study. Upon completion of the course, a proficient student will have foundational knowledge of various agriculture-related career fields, ecosystems, plant systems, animal systems, and the reproduction systems of plants and animals.

NATURAL RESOURCES AND WILDLIFE MANAGEMENT 1 TAT2000

1 credit Open to: 10

Natural Resources & Wildlife Management 1 is the second course in the Natural Resources Management program of study designed to inform students about the fundamental management of natural ecosystems. Upon completion of this course, a proficient student will have basic knowledge of resource management as it pertains to water, land, plant, and wildlife and the principles of environmental science. Recommended Prerequisite: Completion of TNC6010 Natural Resource Core.

NATURAL RESOURCES AND WILDLIFE MANAGEMENT 2 TAT3000

1 credit Open to: 11

Natural Resources & Wildlife Management 2 is the third course in the Natural Resources Management program of study designed to inform students about the management of water, land, plant, and animal resources, including planning and conservation. Upon completion of this course, a proficient student will have working knowledge of management practices pertaining to water, minerals, land, plant, and wildlife and conservation practices.

NATRL RES MGMT WK-BASE LEARN TAH4100

1 credit Open to: 12

Natural Resources Management: WBL is the capstone course in the Natural Resources Management program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in natural resources management. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in natural resources management, necessary steps toward applying for a postsecondary credentialed program, necessary steps toward applying for a job, and reflect on program goals and aspirations.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
PATHWAY: NATURAL RESOURCES BUSINESS				
Foundation of Agriculture, Food, And Natural Resources	TAO1000	09	1	None
Ag Food Prod Business 1	TAB2000	10	1	Found of Ag
Ag Food Prod Business 2	TAB3000	11	1	Ag Food Prod
Ag Food Prod Bus Wk-Base Lrn	TAB4100	12	1	Ag Food Prod

FOUNDATION OF AGRICULTURE, FOOD, & NATURAL RESOURCES TAO1000

1 credit Open to: 09-12

Foundations of Agriculture, Food, & Natural Resources (AGFC100) Foundations of Agriculture, Food, & Natural Resources is an introductory course designed to inform students about careers in agriculture and understand the important role that agriculture plays in the twenty-first century. This Level I course serves as the foundation course for the Animal Systems, Food Systems, Natural Resources Business, and Natural Resources Management programs of study. Upon completion of the course, a proficient student will have foundational knowledge of various agriculture-related career fields, ecosystems, plant systems, animal systems, and the reproduction systems of plants and animals.

AGRICULTURE AND FOOD PRODUCTION BUSINESS 1 TAB2000

1 credit Open to: 10-12

Agriculture and Food Production Business 1 is the second course in the Agriculture and Food Production Business program of study designed to inform students about agriculture and food production related businesses practices, as well as basic business concepts. Upon completion of this course, a proficient student will have developed basic skills and knowledge to be successful in agricultural-related business occupations, including learning foundational Hawaiian traditions and values of honoring and conserving the land and its resources. Recommended Prerequisite: Completion of TNC6010 Natural Resource Core.

AGRICULTURE AND FOOD PRODUCTION BUSINESS 2 TAB3000

1 credit Open to: 10-12

Students will have basic knowledge of the history of agriculture and food production related business in Hawaii, economic principles and risk management considerations, start-up process to creating a business, marketing strategies and the drafting of a business proposal.

AG FOOD PROD BUSINESS WK-BASE LRN 1 TAB4100

1 credit Open to: 10-12

Agriculture and Food Production Business: WBL is the capstone course in the Agriculture and Food Production Business program of study. It is intended to provide a WBL experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned throughout the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in agriculture-related businesses. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in an agriculture and/or food production business or other related field, necessary steps toward applying for a postsecondary credentialed program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement, such as an internship.

NCAC MODEL ACADEMY – ACADEMY OF INDUSTRIAL & ENGINEERING TECHNOLOGY

Assistant Principal	Mr. Algerico Uganiza	Algerico.Uganiza@k12.hi.us	808-307-9555
Counselor(A-K)	Ms Tracee Kinjo	Tracee.Kinjo@k12.hi.us	808-307-9400
Counselor(L-Z)	Ms Lorna Pebenito	Lorna.Pebenito@k12.hi.us	808-307-9400
Academy Director	Mr Justin Kanemoto	Justin.kanemoto@k12.hi.us	808-307-9639
Academy Director	Mr Ian Ablog	Ian.Rick.Ablog@k12.hi.us	808-307-9403

PROGRAM OF STUDY				
SUBJECT	9 th Grade	10 th Grade	11 th Grade	12 th Grade
LANGUAGE ARTS	English I	English II	English III	English IV
MATH	Algebra I or Geometry I	Geometry I or Algebra II	Algebra II or Trig/Pre-Calc	Senior Level Math Course or AP Calculus, Calculus
SCIENCE	Integrated Science	Biology	Physical Science, Chemistry, Physics, or AP Physics	Chemistry (Recommended), AP Physics II, AP Physics C
SOCIAL STUDIES	World History	US History	Modern Hawaiian History / Participation in a Democracy	2-senior semester courses
9 th 10 th REQUIREMENTS /ELECTIVES	PE-Fitness/PE-Activities	Health: Today & Tomorrow/Career & Life Planning	IET Elective	IET Elective
ELECTIVES	World Language or Fine Arts Elective	World Language or Fine Arts Elective	Elective	Elective

PATHWAYS				
Architectural Design	Foundations of Architectural Design	Architectural Design 1	Architectural Design 2	Arch Design Wk-Base Learn
Automation and Robotics Technology	Foundations of Manufacturing	Automation and Robotics Technology 1	Automation and Robotics Technology 2	Auto & Robo Tech Wk-Base Lrn
Automotive Maintenance and Light Repair	Foundation Auto Maintenance & Lt Repair	Automotive Main & Lt Repair 1	Automotive Main & Lt Repair 2	Automotive Wk-Base Learn
Cybersecurity	Foundations of Computer Science and Technology	Cyber 1	Cyber 2	Cyber Wk-Based Learning
Engineering	Foundations of Engineering Technology	Engineering Technology 1	Engineering Technology 2	Engineering Wk-Based Learning
Residential and Commercial Construction	Foundations of Construction	Res Com Construction 1	Res Com Construction 2	Res Com Cons Wk-Base Learn
Welding	Foundations of Manufacturing	Welding 1	Welding 2	Welding Wk-Based Learning

INDUSTRIAL AND ENGINEERING TECHNOLOGY PATHWAY COURSES

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
PATHWAY: ARCHITECTURAL DESIGN				
Found Arch Design	TAF1000	9-12	1	None
Architectural Design 1	TAA2000	10-12	1	TAF1000
Architectural Design 2	TAA3000	11-12	1	TAA2000
Arch Design Wk-Base Learn	TAA4100	12	1	TAA3000

FOUNDATIONS OF ARCHITECTURE DESIGN TAF1000 1 credit Open to: 09-12

Foundations of Architectural Design is an introductory course designed to inform students about careers in architecture. This course serves as the foundation course for the Architectural Design program of study. Upon completion of the course, a proficient student will have foundational knowledge of the process of architectural design, sketching and technical drawing techniques, and basic tool usage and computer-aided software. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ARCHITECTURAL DESIGN 1 TAA2000 1 credit Open to: 10-12

Architectural Design 1 is the second course in the Architectural Design program of study designed to equip students with the knowledge and skills to be successful in various fields of architecture. Upon completion of the course, a proficient student will have a fundamental understanding of requirements to become an architect, urban planning, landscape design and restoration architecture, as well as compliance with applicable federal rules and regulations. A proficient student will also demonstrate technical knowledge and skills through continued technical drawings and models of varying complexity. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ARCHITECTURAL DESIGN 2 TAA3000 1 credit Open to: 11-12

Architectural Design 2 is the third course in the Architectural Design program of study designed to provide students with the opportunity to apply skills learned in previous courses and continue to strengthen their individual design process and aesthetics across a series of real-world applications. Upon completion of the course, a proficient student will have foundational knowledge on various types of architecture, including sustainable architecture and architectural standards for various building types, as well as design constraints such as topography, site analysis, client wishes. A proficient student will demonstrate continued practice and refinement of technical drawing skills (freehand, manual, and CAD) and modeling techniques through a series of design projects. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ARCH DESIGN WK-BASE LEARN TAA4100 1 credit Open to: 12

Architectural Design: WBL is the capstone course in the Architectural Design program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in architecture and architectural design. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in architecture, necessary steps toward applying for a postsecondary credentialed program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning preparation placement (as available), such as an internship. The student will finalize a digital course portfolio providing evidence of mastery of program standards and readiness for postsecondary and the workforce.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
PATHWAY: AUTOMATION AND ROBOTICS TECHNOLOGY				
Found Manufacturing	TAM1000	9-12	1	None
Auto & Robo Tech 1	TAR2000	10-12	1	TAM1000
Auto & Robo Tech 2	TAR3000	11-12	1	TAR2000
Auto & Robo Tech Wk-Base Lrn	TAR4100	12	1	TAR3000

PATHWAY: AUTOMATION AND ROBOTICS TECHNOLOGY

Found Manufacturing	TAM1000	9-12	1	None
Auto & Robo Tech 1	TAR2000	10-12	1	TAM1000
Auto & Robo Tech 2	TAR3000	11-12	1	TAR2000
Auto & Robo Tech Wk-Base Lrn	TAR4100	12	1	TAR3000

FOUNDATIONS OF MANUFACTURING TAM1000

1 credit Open to: 09-12

Foundations of Manufacturing is an introductory course designed to inform students about careers in advanced manufacturing and related areas, including electronics, welding, automation, robotics, and motor and logic controls. This Level 1 course serves as the foundation course for the Automation and Robotics Technology, Electro-Mechanical, and Welding programs of study. Upon completion of the course, a proficient student will be able to describe various advanced manufacturing occupations and outline the steps necessary to advance in specific careers, employ tools safely, possess foundational knowledge of advanced manufacturing components and processes, interpret basic project drawings, and demonstrate proper measurement and application of mathematical concepts.

AUTO & ROBO TECH 1 TAR2000

1 credit Open to: 10-12

Automation and Robotics Technology 1 is the second course in the Automation and Robotics Technology program of study designed to equip students with an understanding of the different phases of automation in the manufacturing industry. Upon completion of the course, a proficient student will have knowledge and skills in automation, the manufacturing production process, Six Sigma and the interrelationship in advanced manufacturing. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study. Items intended for the program of study portfolio are denoted with an asterisk.

AUTO & ROBO TECH 2 TAR3000

1 credit Open to: 11-12

Automation and Robotics Technology 2 is the third course in the Automation and Robotics Technology program of study designed to allow students to identify the components and program robots. Upon completion of the course, a proficient student will be able to program basic robots for manufacturing and the production process; have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; and testing and maintenance of robots and automated systems. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study. Items intended for the program of study portfolio are denoted with an asterisk.

AUTO & ROBO TECH WK-BASE LRN TAR4100

1 credit Open to: 12

Automation and Robotics Technology: WBL is the capstone course in the Automation and Robotics Technology program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in automation and robotics and related fields of occupation. Upon completion of the course, a proficient student will be able to discern multiple pathways to careers in automation and robotics, necessary steps toward applying for a postsecondary program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement (as available), such as an internship or apprenticeship. The student will finalize a digital course portfolio providing evidence of mastery of the program standards and readiness for postsecondary and the workforce. Items suggested for the portfolio are denoted with an asterisk.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: AUTOMOTIVE MAINTENANCE & LIGHT REPAIR</u>				
Found Auto Main & Lt Repair	TTF1000	9-12	1	None
Automotive Main & Lt Repair 1	TTA2000	10-12	1	TTF1000
Automotive Main & Lt Repair 2	TTA3000	11-12	1	TTF2000
Automotive Wk-Base Learning	TTA4100	12	1	TTF3000

FOUNDATIONS OF AUTOMOTIVE MAINTENANCE

AND LIGHT REPAIR TTF1000

1 credit Open to: 09-12

Introduction to Automotive Maintenance and Light Repair (MLR) is an introductory course designed to inform students about careers in automotive repair, as well as basic safety and service skills. This course serves as the foundation course for the Automotive MLR program of study. Upon completion of the course, a proficient student will have foundational knowledge of safety in the workplace, technician service skills, and basic engine and tire maintenance. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

AUTOMOTIVE MAIN & LT REPAIR 1 TTA2000

1 credit Open to: 10-12

The Maintenance and Light Repair (MLR) 1 course is the second course in the Automotive MLR program of study designed to inform students about automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Upon completion of the course, a proficient student will perform diagnostic services and service and/or repair vehicle electrical systems, electrical accessories, and charging systems. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

AUTOMOTIVE MAIN & LT REPAIR 2 TTA3000

1 credit Open to: 11-12

The Maintenance and Light Repair (MLR) 2 course is the third course in the Automotive MLR program of study designed to inform students about suspension and steering systems and brake systems. Upon completion of the course, a proficient student will perform inspection services and service and/or repair vehicle suspension and steering systems and brake systems. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

AUTOMOTIVE WK-BASE LEARNING TTA4100

1 credit Open to: 12

Automotive Maintenance and Light Repair (MLR): WBL is the capstone course in the Automotive MLR program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to occupations in the automotive and transportation industries. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in the automotive and transportation industries, necessary steps toward applying for a postsecondary program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement (as available), such as an internship. The student will finalize a digital course portfolio providing evidence of mastery of the program standards and readiness for postsecondary and the workforce.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
PATHWAY: CYBERSECURITY				
Found Computer Sys & Tech	TIF1000	9-12	1	None
Cyber 1	TIY2000	10-12	1	TIF1000
Cyber 2	TIY3000	11-12	1	TIY2000
Cyber Wk-Based Learning	TIY4100	12	1	TIY3000

FOUNDATIONS OF COMPUTER SCI & TECHNOLOGY TIF1000 1 credit Open to: 09-12

Foundations of Computer Science and Technology is an introductory course designed to inform students about careers in the information technology sector and basic technologies. This Level 1 course serves as the foundation course for the Artificial Intelligence, Programming, A+ IT Essentials, Networking, Cybersecurity, and Web Design and Development programs of studies. Upon completion of this course, a proficient student will be able to describe various information technology occupations and outline the steps necessary to advance in specific careers, demonstrate basic knowledge of computer hardware components and processes, and distinguish foundational concepts in multiple information technology disciplines. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

CYBER 1 TIY2000 1 credit Open to: 10-12

CyberSecurity 1 is the second course in the Cybersecurity program of study designed to introduce students to the foundational elements within the networking and connecting computers to networks. Upon completion of the course students will learn how to develop networks, including network concepts, network apparatuses and tools, network topographies and types, services, addressing, troubleshooting network issues, and install and configurations of computers. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

CYBER 2 TIY3000 1 credit Open to: 11-12

CyberSecurity 2 is the second course in the Cybersecurity program of study designed to introduce students to the foundational elements in Web Design that cover the building blocks of Hypertext Markup Language (HTML), Cascading Style Sheets (CSS) and JavaScript and other web development interfaces and tools. The student will also continue with learning network technologies. Students will also continue to demonstrate, install and configure knowledge and skills in relation to routers and WAN technologies. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

CYBER WK-BASED LEARNING TIY4100 1 credit Open to: 12

CyberSecurity: WBL is the third course in the Cybersecurity program of study designed to introduce students to the programming knowledge and skills in Python, Java and SQL, which are languages utilized by mobile app and game development. in Web Design that cover the building blocks of Hypertext Markup Language (HTML), Cascading Style Sheets (CSS) and JavaScript and other web development interfaces and tools. The student will also continue with learning network technologies. Students will also learn about the foundational elements of the cybersecurity field, including cyber threats, network protocols, cryptography, and access and risk management. Upon completion of the course, a proficient student will be able to explain cybersecurity threats and areas of vulnerabilities and the role of Linux OS in cybersecurity, explain and demonstrate network services and protocols and types of cryptographic algorithms, summarize access management and controls and organizational risk management. A proficient student will also be able to demonstrate basic problem-solving skills to mitigate and/or remove a simulated cyber threat. This course is intended to provide a work-based learning experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in cybersecurity and related fields of occupation. Upon completion of the course, a proficient student will be able to discern multiple pathways to careers in cybersecurity, necessary steps toward applying for a postsecondary program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement (as available), such as an internship. The student will finalize a digital course portfolio providing evidence of mastery of the program standards and readiness for postsecondary and the workforce. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: ENGINEERING</u>				
Found Engineering Tech	TAE1000	9-12	1	None
Eng Tech 1	TAE2000	10-12	1	TAE1000
Eng Tech 2	TAE3000	11-12	1	TAE2000
Eng Tech Wk-Base Learn	TAE4100	12	1	TAE3000

FOUNDATIONS OF ENGINEERING TECHNOLOGY TAE1000 1 credit Open to: 09-12

Foundations of Engineering Technology is an introductory course designed to inform students about careers in engineering. This course serves as the foundation course for the Engineering program of study. Upon completion of this course, a proficient student will have foundational knowledge of the engineering design process, sketching and technical drawing techniques, and foundational elements to engineering and the role of math. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ENGINEERING TECH 1 TAE2000 1 credit Open to: 10-12

Engineering Technology 1 is the second course in the Engineering program of study design to equip students with the knowledge and skills to be successful in various fields in engineering. Upon completion of this course, a proficient student will have foundational understanding of the role of static and hydraulic in design, internal and external considerations in engineering design, and civil and mechanical engineering. Students will also demonstrate technical knowledge and skills through continued technical drawings and models of varying complexity. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ENGINEERING TECH 2 TAE3000 1 credit Open to: 11-12

Engineering 2 is the third course in the Engineering program of study that provides students the opportunity to apply skills learned in previous courses and continue to grow and strengthen their academic and technical skills learned in previous courses through individual and team projects. Upon completion of the course, a proficient student will have additional concepts of engineering, such as kinematics and kinetics, electrical, advanced drawings, and the opportunity to apply engineering design techniques, learned knowledge and skills across design projects for civil and mechanical engineering challenges. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

ENG TECH WK-BASE LEARN TAE4100 1 credit Open to: 12

Engineering: WBL is the capstone course in the Engineering program of study. It is intended to provide a practicum experience for students to develop further understanding of professional issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned throughout this program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in engineering. All students will complete a STEM Capstone project requiring 120 hours of documented work, demonstrating mastery of the scientific method, the engineering design process, the application of math to analyze and design innovative technological solutions to the world's problems, and written and verbal communication skills. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in engineering, necessary steps toward applying for a postsecondary program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement, such as an internship, if available. The student will finalize a digital course portfolio providing evidence of mastery or program standards and readiness for postsecondary and the workforce.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
PATHWAY: RESIDENTIAL & COMMERCIAL CONSTRUCTION				
Foundations of Construction	TCF1000	9-12	1	None
Residential Com Construction 1	TCR2000	10-12	1	TCF1000
Residential Com Construction 2	TCR3000	11-12	1	TCR2000
Res Com Cons Wk-Base Learn	TCR4100	12	1	TCR3000

FOUNDATIONS OF CONSTRUCTION TCF1000

1 credit

Open to: 09-12

Foundations of Construction is an introductory course designed to inform students about careers in building and construction. This Level 1 course serves as the foundation course for the Residential & Commercial Construction and Mechanical, Electrical, and Plumbing (MEP) Systems programs of study. Upon completion of this course, a proficient student will be able to describe various construction occupations and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely, explain building systems and materials, and interpret basic construction drawings to complete projects, demonstrating proper measurement and application of mathematical concepts. As part of a student's program of study progression, the student will create a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

RESIDENTIAL COM CONSTRUCTION 1 TCR2000

1 credit

Open to: 10-12

Residential & Commercial Construction 1 is the second course in the Residential & Commercial Construction program of study intended to have students develop an understanding of the different phases of a construction project from start to finish. Upon completion of this course, a proficient student will be able to demonstrate knowledge and skills in the early phases of building construction, including site layout, concrete and floor to ceiling systems. Proficient students will be able to frame walls, ceilings, and floors of a structure, while safely employing tools and interpreting construction drawings to complete projects. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

RESIDENTIAL COM CONSTRUCTION 2 TCR3000

1 credit

Open to: 11-12

Residential & Commercial Construction 2 is the third course in the Residential & Commercial Construction program of study designed to allow students to develop an understanding of the different phases of a construction project from start to finish. Upon completion of this course, a proficient student will be able to demonstrate knowledge and skill in the later phases of building construction including roofing systems, exterior finishing, stair framing systems, masonry systems, and MEP systems. Students will be able to perform masonry work, frame roofs, install shingles on roofs, apply exterior finishes, and build and install stairs while safely employing tools and interpreting construction drawings to complete projects. As part of a student's program of study progression, the student will maintain a digital program of study portfolio, providing evidence of mastery of course standards and readiness to advance and complete the program of study.

RES COM CONS WK-BASE LEARN TCR4100

1 credit

Open to: 12

Residential & Commercial Construction: WBL is the capstone course in the Residential & Commercial Construction program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in construction and construction management. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in construction, necessary steps toward applying for a postsecondary credentialed program, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning placement (as available), such as an internship or apprenticeship. The student will finalize a digital course portfolio providing evidence of mastery of program standards and readiness for postsecondary and the workforce.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>REQUIRED</u>
<u>PATHWAY: WELDING</u>				
Found Manufacturing	TAM1000W	9-12	1	None
Welding 1	TAW2000	10-12	1	TAM1000W
Welding 2	TAW3000	11-12	1	TAW2000
Welding Wk-Base Learning	TAW4100	12	1	TAW3000

FOUNDATIONS OF MANUFACTURING TAM1000W

1 credit Open to: 09-12

Foundations of Manufacturing is an introductory course designed to inform students about careers in advanced manufacturing and related areas, including electronics, welding, automation, robotics, and motor and logic controls. This Level 1 course serves as the foundation course for the Automation and Robotics Technology, Electro-Mechanical, and Welding programs of study. Upon completion of the course, a proficient student will be able to describe various advanced manufacturing occupations and outline the steps necessary to advance in specific careers, employ tools safely, possess foundational knowledge of advanced manufacturing components and processes, interpret basic project drawings, and demonstrate proper measurement and application of mathematical concepts.

WELDING 1 TAW2000

1 credit Open to: 10-12

Welding 1 is the second course in the Welding program of study designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the advanced manufacturing industry. Upon completion of the course, a proficient student will develop skills in fundamental safety practices in welding, interpreting drawings, creating computer aided drawings, identifying and using joint designs, efficiently laying out parts for fabrication, basic shielded metal arc welding (SMAW), mechanical and thermal properties of metals, and quality control.

WELDING 2 TAW3000

1 credit Open to: 11-12

Welding 2 is the third course in the Welding program of study designed to provide students with opportunities to effectively perform cutting and welding applications of increasing complexity used in the industry. Upon completion of the course, a proficient student will build on the knowledge and skills of the Welding 1 course and apply them. Specifically, students will be proficient in (1) fundamental safety practices in welding, (2) gas metal arc welding (GMAW), (3) flux cored arc welding (FCAW), (4) gas tungsten arc welding (GTAW), and (5) quality control methods.

WELDING WK-BASED LEARNING TAW4100

1 credit Open to: 12

Welding: WBL is the capstone course in the Welding program of study. It is intended to provide a work-based learning experience for students to develop further understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the program of study. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned in previous courses and gives students hands-on practical experiences related to professions in welding. Upon completion of the course, a proficient student will be able to discern multiple pathways to a career in welding, necessary steps toward applying for a postsecondary credentialed program, necessary steps toward applying for a job, and reflect on program goals and aspirations.

CORE COURSES

LANGUAGE ARTS (ENGLISH)

English 9	LCY1010	09	1	Gr. 8 - English
English 10	LCY2010	10	1	English 9
English 11	LCY3010	11	1	
English 12	LCY4010	12	1	

ENGLISH LANGUAGE ARTS 1(GRADE9) LCY1010 1 credit Open to: 09

Students will:

1. Read and respond to literary selections that include works that have universal appeal and reflect the interests of students.
2. Understand the nature and structure of language, and concepts of semantics.
3. Use reading, writing, speaking, and listening for communication and as a tool for active response.
4. Direct the reading, writing, speaking, and listening processes, knowing when and how to advance the process and which phases to fall back to.
5. Assess and reflect upon one's own growth and change in language and learning.

Recommend: Grade 8 English

ENGLISH LANGUAGE ARTS 2 (GRADE 10) LCY2010 1 credit Open to: 10

Students will:

1. Read and respond to literature selections that include work that contribute to our common culture and culture of others.
2. Understand both the unity and diversity of language.
3. Use reading, writing, speaking, and listening for communication and as a tool for active response.
4. Demonstrate control of the conventions and processes of reading, writing, speaking, and listening to increase fluency and achieve desired effects and purposes.
5. Assess and reflect upon one's own growth and change in language and learning.

Recommend: English Language Arts 1

ENGLISH LANGUAGE ARTS 3 (GRADE 11) LCY3010 1 credit Open to: 11

This course provides a balanced program of reading, writing, and oral communication. Students learn to become strategic users of the language process by developing knowledge of specific strategies within these processes and implementing and evaluating the effectiveness of their choice of strategies. Students work with both informational and literary texts. The study of informational texts requires that students conduct research, extract and construct meaning, and complete tasks. The study of various texts gives students an opportunity to read, interpret, and respond personally and critically. Selections are not restricted to British and American authors and include the writings of minorities and other cultures. The study of language includes both the description of language and its role in communication as well as the construction of meaning.

ENGLISH LANGUAGE ARTS 4 (GRADE12) LCY4010 1 credit Open to: 12

Students will understand:

1. Read and respond freely to literature selections that reflect a rich history of evolving perceptions and ideas expressed by writers of the past and present.
2. Understand language as it functions in and is affected by social systems.
3. Use reading, writing, speaking, and listening for communication and as a tool for active response.
4. Demonstrate personal style and maturity of thought with greater control over organization, resources of language and conventions of language within the comprehension, composing, and communication processes.
5. Assess and reflect upon one's growth and change in language and learning.

Recommend: None

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
----------------	-------------------	--------------------	---------------	------------------

ADVANCE PLACEMENT

AP Eng-Lit/Comp	LAY6100	11-12	1	Teacher Approval
AP Eng-Lang/Comp	LAY6010	11-12	1	Teacher Approval

(AP) LITERATURE AND COMPOSITION LAY6100

1 credit Open to: 11-12

The AP English Literature and Composition introductory college-level course focuses on reading, analyzing, discussing, and writing about imaginative literature (short stories, poetry, novels, drama) from various historical periods. Students engage in close reading and critical analysis of texts to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. This course aligns with English Common Core standards, College Board's Units of Study, and prepares students for the Advanced Placement Exam in May. A passing score on the exam is equivalent to an introductory college English writing/literature course credit. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

(AP) LANGUAGE AND COMPOSITION LAY6010

1 credit Open to: 11-12

The AP Language and Composition introductory college-level course helps students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics such as rhetorical situation, rhetorical elements, claims and evidence, reasoning and organization, and style. Students study the development and revision of evidence-based analytic and argumentative writing and will evaluate, synthesize, and cite research to support their arguments. This course aligns with English Common Core standards, College Board's Units of Study, and prepares students for the Advanced Placement Exam in May. A passing score on the exam is equivalent to an introductory college English writing course credit. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

LANGUAGE ARTS ELECTIVE (May NOT be used for English 3 or 4 requirement.)

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
ELECTIVE CREDIT*				
*May not be used for English 3 or 4 requirement				
Newswriting 1	LJY8210	09-12	1	None
Newswriting 2	LJY8300	09-12	1	Newswriting 1
Newswriting 3	LJY8400	09-12	1	Newswriting 2
Newswriting 4	LJY8500	09-12	1	Newswriting 3

NEWSWRITING 1 LJY8210

1 credit Open to: 09-12

The purpose of the class is to learn:

1. To gather material for writing.
2. To organize writing.
3. How a community works by producing some newspaper issues for the community.

Designed primarily to help students develop skills in various forms of journalistic writing, this course will help to learn techniques of editing, interviewing, and research, and to apply these skills in the preparation of newspaper copy. Emphasis will be placed on the need for accuracy and responsibility and the role of the news media in society.

NEWSWRITING 2 LJY8300

1 credit Open to: 10-12

1. Operate as a staff member to plan and produce school paper.
2. Do advanced writing of various types; prepare copy, edit, proofread; write headlines; and plan and produce layout, art work, and photography.
3. Manage business transactions and keep records.

Emphasis is on independent writing, teamwork in planning and producing a quality newspaper on schedule.

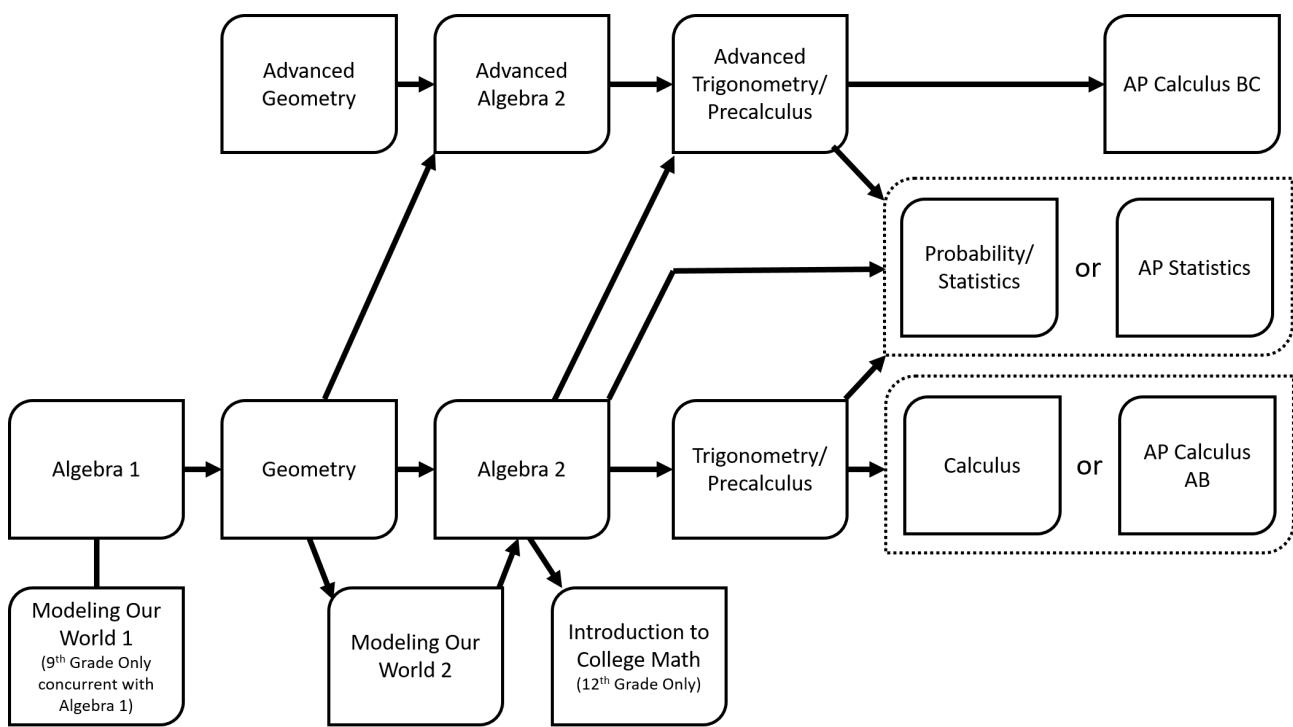
NEWSWRITING 3/4 LJY8400/LJY8500

1 credit Open to: 11-12

Same as above.

MATHEMATICS

Sequencing of Mathematics Courses



SUBJECT	COURSE NO.	GRADE LEVEL	CREDIT	RECOMMEND
Algebra 1	MAX1155	09-12	1	
Modeling Our World 1	MAX1080	09	1	None
Geometry	MGX1150	09-12	1	Alg 1
Modeling Our World 2	MAX1180	11-12	1	Geom
Algebra 2	MAX1200	09-12	1	Geom
Intro to College Math	MIC1200	12	1	
Trigonometry / Pre-calculus	MCX1010/ MCX1020	10-12	0.5/0.5	Alg 2
Probability/ Statistics	MXX1100/ MXX1300	10-12	0.5/0.5	Alg 2
Calculus	MCX1040	11-12	1	Alg 2, Trig/Pre Calc

ALGEBRA 1 MAX1155

1 credit Open to: 09-12

This standard first-year course in algebra includes the real number system, first degree equations of one or two variables, polynomials, graphing, quadratic equations, exponents and radicals. Students will learn to use symbolic forms to represent, model and analyze mathematical situations. (Algebra is a prerequisite for chemistry.)

MODELING OUR WORLD 1 MAX1080

1 credit Open to: 09

This course focuses upon the use of modeling to represent mathematical and real-world contexts. The application and creation of mathematical models engages students in learning experiences that relates classroom mathematics to everyday life and decision-making. The content of the course focuses upon specific learning expectations defined in the Common Core State Standards for high school mathematics, particularly those standards emphasizing the use of mathematical modeling with linear and exponential functions. The course is intended to be taken concurrently with Algebra I, to provide supplemental learning opportunities for students needing additional support to be successful in Algebra I.

GEOMETRY MGX1150

1 credit Open to: 09-12

This course is designed to develop the ability to recognize and use geometric relations and to develop skills in deductive reasoning in math. The course includes elements of solid geometry, coordinate plane, concepts of transformation, rotation and symmetry. (Recommended by 4-year colleges.)

MODELING OUR WORLD 2 MAX1180

1 credit

Open to: 11-12

This course focuses upon the use of modeling to represent mathematical and real-world contexts. The application and creation of mathematical models engages students in learning experiences that relates classroom mathematics to everyday life and decision-making. The content of the course focuses upon specific learning expectations defined in the Common Core State Standards for high school mathematics, particularly those standards emphasizing the use of mathematical modeling with linear, exponential, quadratic and rational functions. The course is intended to be taken prior to Algebra II, to provide supplemental learning opportunities for students needing additional support to be successful in Algebra II.

See Ms. Takamori in H-4 to register for this course.

ALGEBRA 2 MAX1200

1 credit

Open to: 09-12

In addition to a brief review of linear and quadratic functions from Algebra 1, this standard second-year algebra course explores more complex functions including composition, inverse, square root, absolute value, piecewise, higher degree polynomial, rational, exponential and logarithmic functions, and introduces measures of statistical analysis. (Recommended by 4-year colleges.) Math 103 (Early College) is not equivalent to an Algebra 2 credit.

INTRO TO COLLEGE MATH MIC1200

1 credit

Open to: 12

This course prepares students for any non-STEM college level math. Introduction to College Mathematics will focus upon topics from the Algebra, Functions, Geometry and Statistics domains of the Common Core State Standards with an emphasis on mathematical modeling and quantitative reasoning. Students will extend their understanding of high school mathematics concepts and apply that understanding in real-world problem solving situations and purely mathematical contexts.

See Mrs. Kahalewai in H-5 to register for this course.

TRIGONOMETRY MCX1010

0.5 credit

Open to: 10-12

PRECALCULUS MCX1020

0.5 credit

Open to: 10-12

Trigonometry is designed for students who have a two-year background in algebra, including some coordinate geometry. This course provides intensive study of trigonometric functions, fundamental identities, trigonometric equations, inverse trigonometric functions, applications and polar coordinates.

Pre-Calculus course extends the study of elementary functions. Graphs and properties of algebraic functions, transcendental functions, sequences and series, conics and limits are studied.

PROBABILITY MXX1100 (1st Semester Only)

0.5 credit

Open to: 10-12

STATISTICS MXX1300 (2nd Semester Only)

0.5 credit

Probability: This course focuses on the probability content standards with emphasis on developing probability concepts inherent in everyday situations experienced in investment, insurance, science, business, and technology. Emphasis is also placed on using probabilities in decision making. Laboratory experiences are provided.

Statistics: This course provides students with an introduction to statistical issues and concerns and presents strategies for analyzing and interpreting data. This course addresses the statistics content standards and includes the following topics: graphs and charts, collection and organization of data, measures of central tendency and dispersion, uses and misuses of statistics, frequency distributions, correlation, and regression.

CALCULUS MCA1040

1 credit

Open to: 11-12

Calculus is the study of continuous change. This course is designed to prepare and introduce students to the topics covered in a typical college-level Calculus course. Topics include, but are not limited to, limits, derivatives of a variety of functions, applications of derivatives, definite and indefinite integration, and application of integrals.

Recommend: Algebra II, Trigonometry/Pre-Calculus.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
-----------------------	--------------------------	---------------------------	----------------------	-------------------------

ADVANCED PLACEMENT

AP Calculus AB	MCA1040AB	11-12	1	Tchr Recommendation
AP Calculus BC	MCA1040BC	11-12	1	Tchr Recommendation
AP Statistics	MCA1050	11-12	1	Tchr Recommendation

ADVANCED PLACEMENT (AP) STATISTICS MCA1050

1 credit

Open to: 11-12

This is a college level statistics course that introduces students to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and making statistical inferences. This course follows the recommended course syllabi provided through the Advanced Placement program of the College Board. **Students must turn in signed AP parent contract to complete their enrollment in this course.** See Ms. Oasay in H-2 to register for this course.

ADVANCED PLACEMENT (AP) CALCULUS AB MCA1040AB

1 credit

Open to: 11-12

This is a college-level course in calculus based on standards set forth by the College Board AP Program. Topics studied in depth include representations (graphical, numerical, analytical, verbal) of elementary functions, limits, continuity, derivatives, applications of derivatives, definite integrals, the Fundamental Theorem of Calculus, applications of definite integrals, slope fields, and first order separable differential equations. Before studying calculus, all students should have a firm foundation in linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric and piecewise functions. This course helps to prepare students for the AP Examination which is given in May. **Students must turn in signed AP parent contract to complete their enrollment in this course.** Recommend: Algebra II, Trigonometry/Pre-Calculus. See Mr. Odoya in P-20 to register for this course.

ADVANCED PLACEMENT (AP) CALCULUS BC MCA1040BC

1 credit

Open to: 11-12

This is a college-level course in calculus based on standards set forth by the College Board AP Program. In addition to topics covered in AP Calculus AB, topics studied in depth also include L'Hôpital's Rule, improper integrals, sequences and series, convergence, parametric functions, vectors, and polar functions. Before studying calculus, all students should have a firm foundation in linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric and piecewise functions. Trigonometry/Pre-calculus Honors is strongly recommended. This course helps to prepare students for the AP Examination which is given in May. Recommend: Algebra II, Trigonometry/Pre-Calculus. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

See Mr. Ramos in H-9 to register for this course.

ADVANCED MATH

Advanced Geometry	MAX1150H	09-12	1	Tchr Recommendation
Advanced Algebra 2	MAX1200H	09-12	1	Tchr Recommendation
Advanced Trigonometry /	MCX1010H/	10-12	0.5/0.5	Alg 2H
Advanced Pre-calculus	MCX1020H			

ADVANCED GEOMETRY MGX1150H

1 credit

Open to: 09-12

Advanced Geometry explores mathematical concepts at a faster pace and a greater depth than Geometry. Students in this course will study a greater breadth of geometric concepts and a more formalized approach to proof writing than students in Geometry. This rigorous course is designed to prepare students who excel in mathematics for future honors courses. (Recommended by 4-year colleges.) **Recommend:** Algebra I.

ADVANCED ALGEBRA 2 MAX1200H

1 credit

Open to: 09-12

Advanced Algebra 2 is an accelerated and more rigorous second-year algebra course exploring a greater depth and breadth of mathematical concepts than Algebra 2. Students in this course will explore complex functions including composition, inverse, square root, absolute value, piecewise, higher degree polynomial, rational, exponential and logarithmic functions, and introduces concepts from probability, statistics, advanced systems and matrices. This course is designed to prepare students who excel in mathematics for future advanced and AP courses. (Recommended by 4-year colleges.)

Recommend: Advanced Geometry. See Mr. Ramos in H-9 to register for this course.

ADVANCED TRIGONOMETRY MCX1010H

0.5 credit

Open to: 10-12

ADVANCED PRECALCULUS MCX1020H

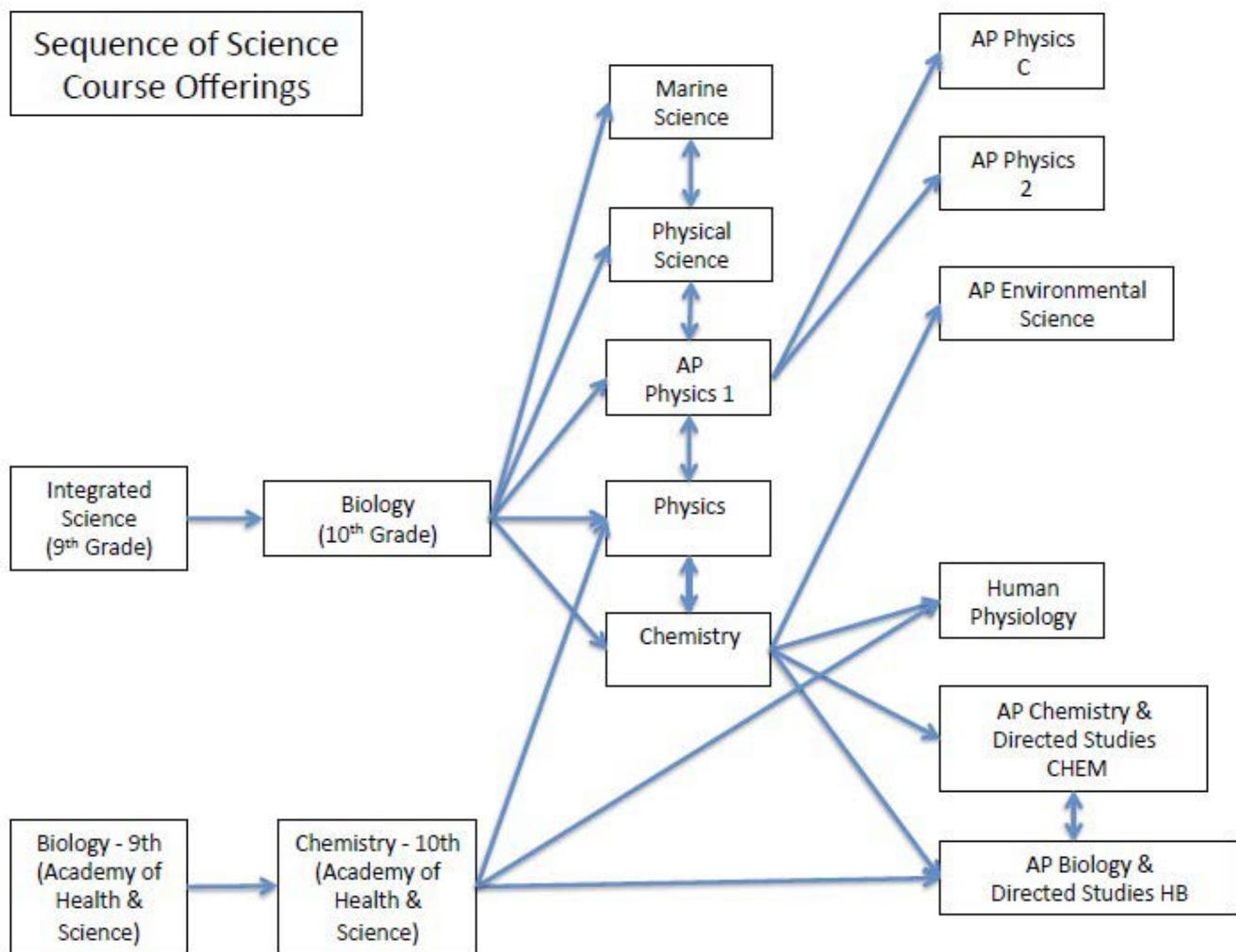
0.5 credit

Open to: 10-12

Advanced Trigonometry: This is an accelerated course providing a more intensive study of trigonometry including trigonometric functions, fundamental identities, trigonometric equations, inverse trigonometric functions, vectors, polar coordinates and equations, and complex numbers. A solid foundation in algebra 2 and geometry is strongly recommended. Advanced Trigonometry is strongly recommended for students interested in taking AP Calculus BC.

Advanced Pre-Calculus: This is an accelerated course providing a more intensive study of pre-calculus topics including conics, sequences and series, counting, probability, parametric equations, limits and derivatives. Additional emphasis is placed on integration of appropriate technology (e.g., graphing calculators). A solid foundation in Trigonometry, Algebra 2, and Geometry is strongly recommended. Advanced Pre-Calculus is strongly recommended for students interested in taking AP Calculus BC. See Ms. Cambra in G-8 to register for this course.

SCIENCE



SUBJECT	COURSE NO.	GRADE LEVEL	CREDIT	RECOMMEND
Integrated Science	SAH2003	09	1	None
Biology 1	SLH2203	10-12	1	None
Marine Science	SEH2503	11-12	1	Biology
Physical Science	SPH2603	11-12	1	Bio/Alg1 or Geom
Chemistry	SPH3503	11-12	1	Biology/Completion of Algebra 1 with a C or higher and concurrent enrollment in Geometry
Physics	SPH5603	11-12	1	Biology/Algebra 2
Human Physiology	SLH7503	11-12	1	Biology
Seminar Sci Research-Astronomy	SAH4503	09-12	1	Teacher Recommend
Honors Directed Study Biology	SAH3503HB	11-12	1	Bio/Chem/Alg2
Honors Directed Study Chemistry	SAH3503HC	11-12	1	Chemistry/Alg2

INTEGRATED SCIENCE SAH2003

1 credit

Open: 09

This course is designed to meet all scientific method standards through a science fair project. Students are provided with extended opportunities to study physical and life sciences through emphasis on application of science and engineering practices. **Recommend:** none

BIOLOGY 1 SLH2203

1 credit

Open to: 10-12

As the foundation course for all students to graduate, students will develop understanding of key concepts that will help them make sense of life science. The ideas are built upon students' science understanding of disciplinary core ideas, science and engineering practices, and crosscutting concepts from the four life science disciplinary core ideas: 1) From Molecules to Organisms: Structures and Processes, 2) Ecosystems: Interactions, Energy, and Dynamics, 3) Heredity: Inheritance and Variation of Traits, 4) Biological Evolution: Unity and Diversity. The performance expectations for high school life science blend core ideas with scientific and engineering practices and crosscutting concepts to support students in developing useable knowledge that can be applied across the science disciplines. **Recommend:** none

MARINE SCIENCE SEH2503

1 credit

Open to: 11-12

This course is aimed at providing students with an in-depth understanding of our oceans. Students will apply principles of physics, chemistry, biology, and geology to understanding the interrelationships between marine systems. Using design thinking, students will create projects that cover topics ranging from climate change to technology that promote sustainable ocean resources. **Recommend:** none

PHYSICAL SCIENCE SPH2603

1 credit

Open to: 11-12

Physical Science is a laboratory course that integrates major theories traditionally learned separately in Chemistry, Physics, and Earth Systems Science. Students use scientific investigation and study relationships between science, technology, and society to understand chemistry concepts that include physical and chemical properties of matter, the physical and chemical changes of matter, and the conservation of matter and energy; physics concepts focus on different forms of energy and energy transformations, relationships between force, mass and motion of objects and understanding the major natural forces of gravitational, electrical and magnetism. **Recommend:** none

CHEMISTRY SPH3503

1 credit

Open to: 10-12

A college prep course which features the study of matter and its changes, atomic structure, the Periodic Table, chemical bonding, gas laws, kinetic theory, chemical equilibrium, solution process, acids and bases, chemical reactions, nuclear chemistry, introductory organic chemistry, and industrial applications with problem solving and laboratory.

Recommend: Biology, Completion of Algebra I with a C or higher and concurrent enrollment in Geometry.

PHYSICS SPH5603

1 credit

Open to: 11-12

This is a problem and lab oriented course which explores basic physical laws and their relevance to students' lives. Students will learn about and develop their problem solving, thinking, social, computational, technological, laboratory and communication skills to make connections within physics. The pacing is college oriented. The approach is both quantitative and conceptual. **Recommend:** Biology, Algebra 2 or concurrent enrollment, in Algebra 2

HUMAN PHYSIOLOGY SLH7503

1 credit

Open to: 11-12

This junior/senior level course is an in-depth focus and study of the anatomy and functions of the human body. Students will analyze ethical and emotional themes relevant to human physiology. Emphasis is on using scientific inquiry and critical thinking to cover body systems such as: tissue, integumentary, advanced skeletal, joints, advanced muscular, advanced nervous, special senses, lymphatic, immune, endocrine, reproductive. Body systems are studied in terms of interactions, maintaining homeostasis and medical terminology. **Recommend:** Biology

SEMINAR IN SCIENTIFIC RESEARCH-ASTRONOMY SAH4503

1 credit

Open to: 09-12

This is a course that enables a team of highly motivated students to each work on independent investigations and to share results through reports and discussions. The investigation and presentation must meet the standards for the State Science and Engineering Fair and the Pacific Symposium for Science and Sustainability. Students must have demonstrated earlier motivation and ability, and concrete evidence of preliminary research and/or project work to enable engagements in advanced research studies. Guidance for student research and seminar reports and discussions is provided by the science teacher. Guidance for students may also include assistance from professional or community resource persons or agencies. Scientific research design, implementation, and relationships between science, technology, and society, must have a significant place in the course in conjunction with investigation-relevant Physical, Life, and Earth Space Science concepts and content students are studying. This research is focused towards Astronomy and Astrophysics through the Maunakea Scholars Program. The students will have an opportunity to have their project proposals reviewed by astronomers and receive telescope time and visit the Maunakea Telescopes for their research. **Recommend:** none

HONORS DIRECTED STUDY SCIENCE BIOLOGY SAH3503HB 1 credit Open to: 11-12
 Directed study under the direction of a teacher, and possibly guidance from professionals, the highly motivated student will identify a project of interest and apply scientific skills to accomplish its objectives. The student must have demonstrated motivation and ability to engage in independent study. Students will also be conducting Advanced Placement Biology Laboratory exercises during this course. Take in sequence with AP Biology.

Recommend: Biology, Chemistry, Algebra 2.

HONORS DIRECTED STUDY SCIENCE CHEMISTRY SAH3503HC 1 credit Open: 11-12
 Directed study under the direction of a teacher, and possibly guidance from professionals, the highly motivated student will identify a project of interest and apply scientific skills to accomplish its objectives. The student must have demonstrated motivation and ability to engage in independent study. Students will also be conducting Advanced Placement Chemistry Laboratory exercises during this course. Take in sequence with AP Chemistry. **Recommend:** Chemistry, Algebra 2.

SUBJECT	COURSE NO.	GRADE LEVEL	CREDIT	RECOMMEND
ADVANCE PLACEMENT				
AP Biology	SLH8003	11-12	1	Bio/Chem/Alg2
AP Physics I	SPH7505	11-12	1	Bio/Alg2/Concurrent Trig or higher
AP Physics II	SPH7506	11-12	1	Bio/Alg 2/Trig or higher
AP Physics C Elec & Magnetism/ AP Physics C Mechanics	SPH7801/ SPH7802	10-12	0.5/0.5	Concurrent Calculus or AP Calculus
AP Environmental Science	SIH3903	11-12	1	Bio/Chem/Alg1
AP Chemistry	SPH5003	11-12	1	See description

ADVANCED PLACEMENT BIOLOGY SLH8003 1 credit Open to: 11-12

This is a college level course in biology based on the Advance Placement Program of the College Entrance Examination Board. Emphasis is on extensive laboratory experience and further development of underlying principles of biology. In-depth conceptual developments include diversity among organisms, relations between form and function, evolutionary change, energy essential for life, biochemistry, continuity of living things, and ecological relations. This course helps to prepare students for the Advanced Placement Examination, which is three hours in length and is administered in May. Students taking AP courses must meet with the AP teacher and complete all necessary forms prior to registration. Students that do not complete forms will be dropped from the class. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

Recommend: Biology, Chemistry and/ or concurrent enrollment in Algebra 2

ADVANCED PLACEMENT PHYSICS 1 SPH7505 1 credit Open to: 11-12

AP Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Unlike AP Physics B, which recommends a prior high school physics course, no prior course work in physics is necessary for students to enroll in AP Physics 1. This course helps to prepare students for the Advanced Placement Examination, which is three hours in length and is administered in May. Students taking AP courses must meet with the AP teacher and complete all necessary forms prior to registration. Students that do not complete forms will be dropped from the class. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

Recommend: Biology, Algebra 2 with a "C" or higher, and be concurrent taking Trig or an equivalent course.

ADVANCED PLACEMENT PHYSICS 2 SPH7506 1 credit Open to: 11-12

AP Physics 2: Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Students should have had AP Physics 1 or a comparable introductory course in physics. Students should have taken or be concurrently taking precalculus or an equivalent course. This course helps to prepare students for the Advanced Placement Examination, which is three hours in length and is administered in May. Students taking AP courses must meet with the AP teacher and complete all necessary forms prior to registration. Students that do not complete forms will be dropped from the class. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

Recommend: Biology, Algebra II, Trigonometry or higher

AP PHYSICS C ELECTRICITY AND MAGNETISM SPH7801 .5 credit Open to: 10-12
AP PHYSICS C MECHANICS SPH7802 .5 credit Open to: 10-12
AP Physics C Electricity and Magnetism will provide instructions in each of the following five content areas to meet College Board objectives: electrostatics, conductors and dielectrics; electric circuits; magnetic fields; and electromagnetism. With this, College Board approves and authorizes this course. In addition, the following content areas will be provided to address state standards: relativity and quantum physics. Guided inquiry and student-centered laboratory learning will be utilized to foster the development of critical thinking skills. Introductory differential and integral calculus will be applied throughout the course.

Mechanics will provide instruction in each of the following six content areas to meet College Board objectives: Kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. With this, College Board approves and authorizes this course. In addition, the following content areas will be provided to address state standards: heat, thermodynamics, waves and optics. Guided inquiry and student-centered laboratory learning will be utilized to foster the development of critical thinking skills. Introductory differentials and integral calculus will be applied throughout the course. **Students must turn in signed AP parent contract to complete their enrollment in this course.** **Recommend:** Concurrent Calculus or AP Calculus

ADVANCED PLACEMENT (AP) ENVIRONMENTAL SCIENCE SIH3903 1 credit Open to: 11-12
AP Environmental Science is designed to be equivalent of a one-semester, introductory college course in environmental science, stressing scientific principles and analysis through inquiry and laboratory experiences. The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze both natural and human-induced environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary: it embraces a wide variety of topics from different areas of study. This course helps to prepare students for the Advanced Placement Examination, which is three hours in length and is administered in May. Students taking AP courses must meet with the AP teacher and complete all necessary forms prior to registration. Students that do not complete forms will be dropped from the class. **Students must turn in signed AP parent contract to complete their enrollment in this course.** **Recommend:** Biology, Chemistry, Algebra 1.

ADVANCED PLACEMENT (AP) CHEMISTRY SPH5003 1 credit Open to: 11-12
This course is an equivalent of the general chemistry course usually taken during the first college year and helps to prepare students for the Advanced Placement Examination, which is three hours in length and is administered in May. The laboratory experience is equivalent to that of a typical college-level course in chemistry. Emphasis is on mathematical formulation of principles and laboratory activities based on experimental problems and independent study. Concepts and principles studied in depth include atomic theory and structure, chemical bonding, nuclear chemistry, gases liquids and solids, solutions, stoichiometry, reaction types, equilibrium, kinetics, thermodynamic relations, and chemical calculations. This course helps to prepare students for the Advanced Placement Examination, which is three hours in length and is administered in May. Students taking AP courses must meet with the AP teacher and complete all necessary forms prior to registration. Students that do not complete forms will be dropped from the class. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

Recommend: C or better in all science classes (Integrated Sci, biology, chemistry, and physics). In addition C or better in Alg 2. Must concurrently take Directed Studies.

SOCIAL STUDIES

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
World History & Culture	CHW1100	09	1	None
US History & Government	CHU1100	10	1	None
Modern Hist of Hawaii / Participation in a Democracy	CHR1100/ CGU1100	11	0.5/0.5	None
Filipino History Culture / Sociology	CHR2300/ CSD2300	12	0.5/0.5	None
Psychology/Sociology	CSD2200/CSD2300	12	0.5/0.5	None
Geography/Anthropology	CSD2100/CSD2400	12	0.5/0.5	None
ADVANCED PLACEMENT				
AP US History	CHA6100	10-12	1	Teacher Approval

G R A D E 9

WORLD HISTORY AND CULTURE CHW1100

1 credit Open to: 09-12

This course examines the development and dynamics of human experience through such themes as migration, imperialism, trade, exchanges, and transfers. This course provides a foundation and a rationale for active participation in our global community. It examines diverse perspectives, encourages diverse interpretations and historical empathy, and explores global conflict and cooperation, socio-political, geographic, and economic development of past and contemporary civilizations. Students examine decisions, events, and ideas of the past to make informed judgments on contemporary issues, decisions, and events. **Recommend:** None

G R A D E 10

U.S. HISTORY AND GOVERNMENT CHU1100

1 credit Open to: 10-12

This course provides examines the development of the United States through historical concepts of change, continuity, and causality; through civics concepts of governance, democracy, conflict, and cooperation; through geographical and anthropological concepts of diversity and unity of human/cultural systems; and through the economic concepts of interdependence, limited resources, and functions of markets. It requires students to not suppose that we can judge the past with ideas of present days or current standard, to understand people in the context of their times, and to understand that standards and ideas are constantly changing. This course allows students to examine key ideas, events, people, and movements in the United States, assisting them in developing their own personal, national, and worldviews necessary to make informed decisions. Students will use the tools and methodologies of the appropriate social scientists to conduct their inquiries. *Note: CHA6100 Advanced Placement (AP) US History can be substituted for this course.* **Recommend:** None

G R A D E 11

MODERN HISTORY OF HAWAII CHR1100

0.5 credit Open to: 11-12

This course engages students in in-depth historical inquiry focusing on the historic, geographic socio-political, economic, technological, and multi-cultural development of modern Hawaii and how the decisions of the past account for and impact present circumstances. This course examines contemporary Hawaii in the context of the complex interactions and interrelationships (historic, geographic, socio-political, economic, technological, and multi-cultural) that have shaped and continue to influence major decisions facing Hawaii. Students will use the tools and methods of social scientists to conduct their inquiry and study. **Recommend:** None

PARTICIPATION IN A DEMOCRACY CGU1100

0.5 credit Open to: 11-12

This course provides opportunities for students to actively engage in civic discourse and participation. It engages students in the examination of government, political activity, contemporary issues, decision-making processes, and the democratic process. This course focuses on the principles, values and ideals of American constitutional government, global interactions and interconnections, and issues and roles of American citizens. Students are expected to take an active role as citizens and use the tools and methods of social scientists in their inquiry. **Recommend:** None

G R A D E 1 2

THESE COURSES SHOULD BE SELECTED AS PAIRS

FILIPINO HISTORY CULTURE CHR2300

0.5 credit Open to: 12

Filipino History Culture--the product of a student-led initiative that began in 2021--is the nation's first state-wide high school course of its kind. Students will embark on a journey to explore both **Philippine** and **Filipino American** history, culture, and identity. This course examines social, cultural, political, economic, and environmental impacts on Filipinos locally and globally. Explore Filipino art, literature, music, language, food, and more. Students will build solidarity and community by nurturing their identities, while connecting with other ethnic groups. Lastly, you will be empowered to apply your understanding through civic action and engagement within your communities. Regardless of one's ethnicity, you are invited to be among the first to experience a groundbreaking step toward cultural representation, celebration, and justice.

SOCIOLOGY CSD2300

0.5 credit Open to: 12

Sociology emphasizes inquiry and using sociological methodologies and practices. It will analyze issues of cultural assimilation from sociological perspectives of diverse ethnic and racial groups. It is designed to focus on the understanding of relationships among cultures, cultural change, and social institutions and conditions.

PSYCHOLOGY CSD2200

0.5 credit Open to: 12

This course includes the study of the behavior of one's self as well as the behaviors of groups and other individuals. Experiments and activities include Personality Tests, Intelligence Tests, Motivation, Creativity, Emotions and Personality.

SOCIOLOGY CSD2300

0.5 credit Open to: 12

Sociology emphasizes inquiry and using sociological methodologies and practices. It will analyze issues of cultural assimilation from sociological perspectives of diverse ethnic and racial groups. It is designed to focus on the understanding of relationships among cultures, cultural change, and social institutions and conditions

GEOGRAPHY CSD2100

0.5 credit Open to: 12

The student will have a general knowledge of the earth's surface and natural resources, and an understanding of the different ways human beings have adapted to the physical environment. The study includes field work to understand the principles of geography.

ANTHROPOLOGY CSD2400

0.5 credit Open to: 12

Using the tools and methods of the anthropologist, this course examines world cultures with emphasis on cultural systems, cultural diversity and commonality, and cultural dynamics. It looks at economic, geographic, and social patterns across cultural perspectives. It engages students in analysis and evaluation of the ways in which groups change and interact globally.

AP U.S. HISTORY CHA6100

1 credit Open to: 10-12

The focus in Advanced Placement U.S. History is on exploration and settlement of the new world, colonial society and the Revolution, the establishment of the Constitution and the New Republic, nationalism and economic expansion, sectionalism, the Civil War and Reconstruction, and industrialization.

Advanced Placement U.S. History emphasis is on the 19th-20th century intellectual and cultural movements, national politics, foreign policy, and the post war period under Eisenhower, Kennedy, Johnson, Nixon, and Reagan. Emphasis is on analysis and interpretation of primary sources, which includes the use of documentary material, maps, statistical tables, and picture to write analytical papers. These courses are intended for students working to complete studies equivalent to a college introductory course in this field. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

GLOBAL ELECTIVES

BUSINESS ELECTIVES OPEN TO ALL STUDENTS

SUBJECT	COURSE	GRADE		
	NO.	LEVEL	CREDIT	RECOMMEND
Found of Business & Marketing	TBB1000	11-12	1	None
Principles of Finance & Economics	TBP2000	11-12	1	None
Accounting	TBT3000	11-12	1	None
Financial Management	TBF4000	11-12	1	None

FOUNDATIONS OF BUSINESS & MARKETING TBB1000 1 credit Open to: 11-12

See the full course description under the Academy of Professional and Public Services.

- Learn how to promote you and/or your business
- Learn how business can be found in every career field

PRINCIPLES OF FINANCE & ECONOMICS TBP2000 1 credit Open to: 11-12

See the full course description under the Academy of Professional and Public Services

- Learn to budget your money
- Learn about banks/credit unions, credit cards vs debit cards
- Learn about your credit score and how it impacts loans
- Learn about personal loans, auto loans, and home mortgages

ACCOUNTING TBT3000 1 credit Open to: 11-12

See the full course description under the Academy of Professional and Public Services

- Learn how entrepreneurs manage their finances
- Learn about tax deductions for businesses to keep profits and pay less taxes
- Learn how to prepare your federal and state taxes
- Learn how to evaluate companies for investments

FINANCIAL MANAGEMENT TBF4000 1 credit Open to: 11-12

See the full course description under the Academy of Professional and Public Services

- Learn about traditional forms of investing for retirement (IRA, 401k)
- Learn about long-term and short-term investing
- Create your own investing strategy to build your retirement fund, additional income, or as a career

COMPUTER SCIENCE

SUBJECT	COURSE	GRADE		
	NO.	LEVEL	CREDIT	RECOMMEND
AP Computer Sci Principles	ECS9800	10-12	1	None
Introduction to Computer Science	EXS1300	09-12	1	None

AP COMPUTER SCIENCE PRINCIPLES ECS9800 1 credit Open to: 10-12

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. The curriculum framework provides a detailed description of the course content. The key sections of this framework are described in the following text: -computational thinking practices (connecting computing, creating computational artifacts, abstracting, analyzing problems and artifacts, communicating, collaborating) -seven big ideas (creativity, abstraction, data and information, algorithms, programming, the internet, global impact) -learning objectives that integrate computational thinking practice or skill -essential knowledge statements. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

INTRODUCTION TO COMPUTER SCIENCE EXS1300

1 credit

Open to: 9-12

This is an introduction to Computer Science that will empower students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving and fun. We will focus on the visible aspects of computing and computer science, and encourage students to see where computer science exists around them and how they can engage with it as a tool for exploration and expression. We will cover topics such as programming (HTML/CSS), physical computing, web development, and data. Students will be inspired to build their own websites, apps, games, and physical computer devices.

FINE ARTS

<u>SUBJECT</u>	COURSE NO.	GRADE LEVEL	CREDIT	RECOMMEND
-----------------------	-------------------	--------------------	---------------	------------------

VISUAL ARTS

AP Drawing	FVA1000	12	1	Teacher Approval
Ceramics 1	FVL1000	09-12	1	None
Ceramics 2	FVL2000	10-12	1	Ceramics 1
Ceramics 3	FVL3000	11-12	1	Ceramics 2
Ceramics 4	FVL4000	12	1	Ceramics 3
Drawing & Painting 1	FVQ1000	09-12	1	None
Drawing & Painting 2	FVQ2000	10-12	1	Teacher Approval
Drawing & Painting 3	FVQ3000	11-12	1	Teacher Approval
Drawing & Painting 4	FVQ4000	11-12	1	Teacher Approval
Photography 1	FVP1000	09-12	1	None
Photography 2	FVP2000	10-12	1	Teacher Approval

PERFORMING ARTS

Creative Dance 1	FDC1000	09-12	1	None
Creative Dance 2	FDC2000	09-12	1	Creative Dance 1
Creative Dance 3	FDC3000	09-12	1	Creative Dance 2
Dir Stdy-Creative Dance	FDD1000	09-12	1	Creative Dance 3
Intro Band	FMB1000	09-11	1	None
Band 1	FMB2000	09-12	1	Beginning or Inter Band
Band 2	FMB3000	10-12	1	Band 1
Band 3	FMB4000	10-12	1	Band 2
Band 4	FMB5000	10-12	1	Band 3
Jazz Band 1	FMN3000	09-12	1	Approval
Jazz Band 2	FMN3300	09-12	1	Teacher Approval
Jazz Band 3	FMN3600	09-12	1	Teacher Approval
Jazz Band 4	FMN3900	09-12	1	Teacher Approval
<u>Marching Band</u>				
Directed Study in Music 1A	FMD1100MB	09-12	.5	Teacher Approval
Directed Study in Music 2A	FMD2100MB	09-12	.5	Teacher Approval
Directed Study in Music 3A	FMD3100MB	09-12	.5	Teacher Approval
Directed Study in Music 4A	FMD4100MB	09-12	.5	Teacher Approval
<u>Applied Music</u>				
Applied Music 1	FME1000B	09-12	.5	Teacher Approval
Applied Music 2	FME1100B	09-12	.5	Teacher Approval
Applied Music 3	FME1200B	09-12	.5	Teacher Approval
Applied Music 4	FME1300B	09-12	.5	Teacher Approval
Applied Music 5	FME1400B	09-12	.5	Teacher Approval
Applied Music 6	FME1500B	09-12	.5	Teacher Approval
Applied Music 7	FME1600B	09-12	.5	Teacher Approval
Applied Music 8	FME1700B	09-12	.5	Teacher Approval

Chorus 1	FMC1000	09-12	1	None
Chorus 2	FMC2000	10-12	1	Chorus 1
Chorus 3	FMC3000	10-12	1	Chorus 2
Chorus 4	FMC4000	10-12	1	Chorus 3
Ensembles 1(Chamber Choir)	FMN1000	10-12	1	Teacher Approval
Ensembles 2(Chamber Choir)	FMN1300	10-12	1	Teacher Approval
Ensembles 3(Chamber Choir)	FMN1600	10-12	1	Teacher Approval
Ensembles 4(Chamber Choir)	FMN1900	10-12	1	Teacher Approval
Hawaiian Dance 1	FDK1000	09-12	1	None
Hawaiian Dance 2	FDK2000	10-12	1	Hawn Dance 1
Hawaiian Dance 3	FDK3000	11-12	1	Hawn Dance 2
Directed Studies Haw Dance	FDD4000	12	1	Hawn Dance 3
Ukulele 1	FML1000	09-12	1	None

AP DRAWING FVA1000

1 credit Open to: 12

AP Drawing is part of three different AP courses in the AP Art and Design program. It corresponds to a college and/or university foundational art course and requires students to submit a digital portfolio instead of a written AP exam. AP Drawing is weighted because it is designed to be the equivalent of a one-semester, introductory college course in 2-D art and design. **Students must turn in signed AP parent contract to complete their enrollment in this course.**

ARTS & CRAFTS FVC1000

1 credit Open to: 09-12

This course focuses on the exploration of the arts and crafts media processes. The student will experience a variety of arts and crafts techniques along with its cultural and historical background. Students will study how the elements and principles of art impacted these art works.

CERAMICS 1 FVL1000

1 credit Open to: 09-12

This is an introductory course that includes clay as a universal medium of expression. Functional and non-functional pieces from diverse cultures are introduced and analyzed. Hand building techniques involving pinch, coil, slab, and free form modeling are covered. Glazes, glazing techniques, and other methods of surface decoration are explored.

Recommend: Arts and Communication Pathway Core, but not required.

CERAMICS 2 FVL2000

1 credit Open to: 10-12

This is an advanced course in hand-building and wheel-throwing techniques requiring application of the elements and principles of design and craftsmanship. Further experimentation in firing, glazing, and glaze calculations is encouraged. Students in this class will be encouraged to create a piece for an art exhibition. A portfolio of ceramic works can be prepared.

Recommend: Ceramics 1

DRAWING & PAINTING 1 FVQ1000

1 credit Open to: 09-12

An introductory course to drawing and painting. The fundamentals of drawing and painting techniques will be explored, along with experimentation with a variety of media including but not limited to pencil, pastel, acrylic paint, and watercolor. Students will practice different techniques to build basic skills that will depict accuracy, realism, and proportion in artwork.

Recommend: None

DRAWING & PAINTING 2 FVQ2000

1 credit Open to: 10-12

This course is geared for students with interest in furthering their technique, artistic development, and expression. Aside from strong technical skills, this course will require creativity, the ability to work independently, and time management. Students will be given long-term art projects that require self-discipline, brainstorming, and the ability to create unique, individual art. Projects are designed to expand on the technical skills learned in D/P 1 and display personal expression and creativity.

Recommend: Satisfactory completion of Drawing & Painting 1A/1B.

DRAWING & PAINTING 3 FVQ3000

1 credit Open to: 11-12

An advanced course, this course is geared for the serious and dedicated art student with strong technical and creative skills. Required for this class is the ability to work independently, manage time well, accept constructive criticism, and a desire to further develop technical and artistic skills. Students will be expected to spearhead projects and create unique concepts, themes, and meaning for all artwork. New media will also be explored, including but not limited to charcoal, marker, and pen. Class projects will emphasize the proficiency of technical skills, demonstrating the proper application of the Elements and Principles of Art to create artwork that displays personal expression and individual style. Successful projects may be displayed in school, in public or entered in art competitions.

Recommend: Satisfactory completions of Drawing & Painting 2A/2B.

DRAWING & PAINTING 4 FVQ4000

1 credit Open to: 11-12

The highest course of drawing and painting offered, this course is for artistic students with strong technique, creative ability, and discipline that want to further pursue their love and dedication to art. A student led class, this course allows students complete freedom with project and media choice. From concept to creation, students will be able to make all decisions for their projects in a journey of discovery to find true self-expression. This course aims to help high achieving artists to create a sense of self and discover their identity, brand, and style. Successful projects may be displayed in school, in public or entered in art competitions, and college career options will be explored. **Recommend:** Satisfactory completions of Drawing & Painting 3A/3B.

PHOTOGRAPHY 1 FVP1000

1 credit Open to: 09-12

This is an introductory course to digital photography. Basic techniques taught are composition, exposure, lighting, camera care and operation through digital media.

PHOTOGRAPHY 2 FVP2000

1 credit Open to 10-12

This course is designed to further the study of digital photography as a creative form of visual communication. Students will work on operating the camera effectively as well as refining their skills in developing, printing and composition.

Recommend: Cell phone camera or DSLR digital camera is required -- allows student to use camera off campus; Satisfactory completion of Photography 1.

FINE ARTS**PERFORMING ARTS****CREATIVE DANCE 1 FDC1000**

1 credit Open to: 09-12

This is the beginning level of a series of courses designed to provide students with opportunities to comprehend and experience dance as a language of movement. The course provides opportunities for students to learn, communicate, and perform various elements of dance at appropriate developmental levels. It assists students to develop self-discipline, creativity, and focus as they explore concepts of movement in space, time, and energy based on principles of modern dance. The vocational possibilities of dance are also explored. **Recommend:** None

CREATIVE DANCE 2 FDC2000

1 credit Open to: 09-12

After Creative Dance 1, students are provided with an opportunity to apply and demonstrate critical and creative thinking skills. Students will create a dance and revise it over time, articulating the reasons for artistic decisions and explain what was gained and lost by those decisions. Students will also make connections between dance and healthful living and will also be able to develop and use criteria for evaluating their own and others' performances. **Recommend:** Creative Dance 1

CREATIVE DANCE 3 FDC3000

1 credit

Open to: 09-12

Students will continue to develop and demonstrate critical and creative thinking skills through the dance process. Students will create solo and group performances. They will revise and critique changes based on the different styles and themes being studied. **Recommend:** Creative Dance 2

DIR STUDY-CREATIVE DANCE FDD1000

1 credit

Open to: 09-12

This course is designed to meet the unique interests and skills of students through self-directed study. With the approval and guidance of the teacher, the student will develop and implement a project or a plan of study to pursue his/her area of interest in creative dance. **Recommend:** Creative Dance 3

INTRO BAND FMB1000

1 credit

Open to: 09-11

This is a beginning band course that will cover the first two years of musical learning that is normally taught during intermediate school band. It is meant for students who will be in grades 9-11 during next school year at Waipahu High School who are interested in potentially joining the high school band after successful completion of this course. Students will learn to play a band instrument utilizing method books and sheet music. *Students interested in playing percussion will NOT be learning the drum set, but will instead be learning how to play the bass drum, snare drum, timpani, and orchestra bells. Students will be responsible for purchasing their own method book, mouthpiece kit, reeds, and/or drum sticks.

Recommend: None

BAND 1 FMB2000

1 credit

Open to: 09-12

A continuation of intermediate band, emphasis will be on the fundamental skills of performing instrumental music as well as the personal attitudes and skills that are required in order to function in a successful performing group. Students are required to participate in scheduled band practices/ performances as well as the football pep-band.

Recommend: Completion of Int. Band 1, Int. Band 2.

BAND 2 (GRADE 10) FMB3000

1 credit

Open to: 10-12

BAND 3 (GRADE 11) FMB4000

1 credit

Open to: 11-12

BAND 4 (GRADE 12) FMB5000

1 credit

Open to: 12

As sequential continuation of Band 1, students will further refine musical skills such as: sight reading, musicality, instrument technique, and tone production. These band members will perform at all major events, i.e. various community parades, varsity football games, annual band concerts, community concerts and band festivals.. Students who continue in the band program will also be expected to gradually acquire leadership skills/roles, and to learn and utilize positive concepts of group dynamics. Attendance is required for all scheduled Rehearsals and Performances

Recommend: Special audition

JAZZ BAND 1 FMN3000

1 credit

Open to: 09-12

The Jazz band course is designed for students who are interested in learning and performing jazz and other similar music.

Basic improvisation, theory, and history of Jazz will be introduced in the course. Students will listen to various jazz musicians and learn about the potential to improvise music with their instrument. Note: Course is offered during after school hours. **Recommend:** Special audition

JAZZ BAND 2 FMN3300

1 credit

Open to: 09-12

JAZZ BAND 3 FMN3600

1 credit

Open to: 09-12

JAZZ BAND 4 FMN3900

1 credit

Open to: 09-12

DIRECTED STUDY IN MUSIC 1A (MARCHING BAND) FMD1100MB

.5 credit

Open to: 09-12

Students enrolled in marching band will perform a halftime field show during halftimes at football games and will participate in marching band competitions. Students will meet during the summer to learn the techniques required for class. Daily attendance to class and to all performances is mandatory. Class will occur on Tuesday and Thursday afternoons and Saturdays from 10-2. Performances will occur from September through November.

Please contact Mr. Fu with any questions before enrolling. Directed Study Marching Band classes must be taken **concurrently** with Band I-IV. Note: Course is offered during after school hours.

DIRECTED STUDY IN MUSIC 2A (MARCHING BAND) FMD2100MB

.5 credit

Open to: 09-12

DIRECTED STUDY IN MUSIC 3A (MARCHING BAND) FMD3100MB

.5 credit

Open to: 09-12

DIRECTED STUDY IN MUSIC 4A (MARCHING BAND) FMD4100MB

.5 credit

Open to: 09-12

APPLIED MUSIC 1 FME1000B

.5 credit Open to: 09-12

The Applied Music 1 course is designed to help students acquire performance skills, musicianship qualities on an instrument, develop singing skills, or develop specialized skills in music. The instructor will develop curriculum with appropriate level of difficulty in the music to address the unique needs of the students. In addition to the Fine Arts music standard and benchmarks, the instructor may select other national music standards appropriate for students and may integrate other Fine Arts standards. This course must be taken concurrently with Band II-IV. **Recommend:** Special audition

<u>APPLIED MUSIC 2 FME1100B</u>	.5 credit	Open to: 09-12
<u>APPLIED MUSIC 3 FME1200B</u>	.5 credit	Open to: 09-12
<u>APPLIED MUSIC 4 FME1300B</u>	.5 credit	Open to: 09-12
<u>APPLIED MUSIC 5 FME1400B</u>	.5 credit	Open to: 09-12
<u>APPLIED MUSIC 6 FME1500B</u>	.5 credit	Open to: 09-12
<u>APPLIED MUSIC 7 FME1600B</u>	.5 credit	Open to: 09-12
<u>APPLIED MUSIC 8 FME1700B</u>	.5 credit	Open to: 09-12

The Applied Music 2-8 course is a continuation of Applied Music 1 and is designed to help students develop specialized skills in music. The instructor will develop curriculum with appropriate level of difficulty in the music to address the unique needs of the students. In addition to the Fine Arts music standard and benchmarks, the instructor may select other national music standards appropriate for students and may integrate other Fine Arts standards. These courses must be taken **concurrently** with Band II-IV. **Recommend:** Special audition

CHORUS 1 FMC1000

1 credit Open to: 09-12

Chorus 1 is designed for students to develop performance skills, knowledge, and understanding of vocal music. Musical arrangements from a variety of genres and cultures are sung in unison and up to four-part harmony. Students are required to participate in scheduled group practices/performances. Solo opportunities offered but not required.

Recommend: None

<u>CHORUS 2 FMC2000</u>	1 credit	Open to: 10-12
<u>CHORUS 3 FMC3000</u>	1 credit	Open to: 10-12
<u>CHORUS 4 FMC4000</u>	1 credit	Open to: 10-12

As sequential continuation to Chorus 1. Students enrolled in Chorus 2-4 will further develop the skills obtained in chorus 1 such as: sighting reading, musicality and vocal technique. Students who continue through choir are expected to learn leadership skills. Students are required to participate in scheduled group practices/performances.

Recommend: Previous level of Chorus

ENSEMBLES 1(Chamber Choir) FMN1000

1 credit Open to: 10-12

Chamber choir is a select ensemble designed for the advanced vocal student. The completion of an audition and/or recommendation from chorus instructor is required for membership. Emphasis is placed on elevating music reading skills and performance techniques to an advanced level through standard and custom choral literature. Students in this class should have previous choral ensemble experience. The students in this class should exhibit solid music reading skills and have a working knowledge of vocal techniques. Note: This course is offered during after school hours **Recommend:** Audition and/or Directors approval

<u>ENSEMBLES 2(Chamber Choir) FMN1300</u>	1 credit	Open to: 10-12
<u>ENSEMBLES 3(Chamber Choir) FMN1600</u>	1 credit	Open to: 10-12
<u>ENSEMBLES 4(Chamber Choir) FMN1900</u>	1 credit	Open to: 10-12

UKULELE 1 FML1000

1 credit Open to: 09-12

Ukulele 1 is an introductory course designed to provide students with the opportunity to learn and develop skills in ukulele playing. Students will be involved in performing, listening to and evaluating ukulele music. Basics in strumming, picking and music theory will be addressed through the course of the year.

Recommend: None

HAWAIIAN DANCE 1 FDK1000

1 credit Open to: 09-12

The hula is a form of dance used by the Hawaiians of yesterday and today as a celebration of life. The basic steps and hand gestures of the hula will be taught. Both ancient and modern hula styles will be covered with an emphasis on the modern or 'auana hula. The history and meaning of each song is the essence of the dance and will be taught as an integral part of each hula. **Recommend:** None

HAWAIIAN DANCE 2 FDK2000

1 credit Open to: 09-12

Dances of Hawaii 2 is a continuation of steps and hand gestures learned in the previous level with the addition of more complex dance routines. Both ancient and modern hula styles will be covered with an emphasis on the modern hula. The use of instruments in a hula will be introduced at this level. Background information of each song will be researched and will be the foundation for each hula. **Recommend:** Hawaii Dance 1.

HAWAIIAN DANCE 3 FDK3000

1 credit Open to: 09-12

This is an advanced course in performance to strengthen and refine dancing skills. As students advance, dance routines become more complex, with emphasis on projection of story and choreography. Students will also be able to develop and use criteria for evaluating the artistic merits of their own and others' performances while keeping with conventions and traditions, as appropriate. Emphasis will also be placed on the cultural and historical contexts in which the hula has developed.

Recommend: Hawaiian Dance 2.

DIRECTED STUDY – HAWAIIAN DANCE FDD4000

1 credit Open to: 12

Students registered in this course will be given an opportunity to explore his/her own interests in Hawaiian dance through projects and/or plans of study. **Recommend:** Hawaiian Dance 3 and/or teacher approval.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
WORLD LANGUAGE				
Chinese 1	WAC1000	09-12	1	None
Chinese 2	WAC2000	09-12	1	Chinese 1
Ilokano 1	WPI1000	09-12	1	None
Ilokano 2	WPI2000	10-12	1	Ilokano 1
Ilokano 3	WPI3000	10-12	1	Ilokano 2
Ilokano for Health Sciences	WLD4000E1/ WLD4000E2	10-12	.5/.5	Teacher Recommend
Hawaiian 1	WPH1000	09-12	1	None
Hawaiian 2	WPH2000	09-12	1	Hawaiian 1
Hawaiian 3	WPH3000	10-12	1	Hawaiian 2
Hawaiian 4	WPH4000	11-12	1	Hawaiian 3
Japanese 1	WAJ1000	09-12	1	None
Japanese 2	WAJ2000	10-12	1	Japanese 1
Japanese 2 Honors	WAJ2000H	10-12	1	Japanese 1 "B" or higher
Japanese 3	WAJ3000	11-12	1	Japanese 2
Japanese 3 Honors	WAJ3000H	11-12	1	Japanese 2 "B" or higher
Japanese 4	WAJ4000	12	1	Japanese 3
*AP Japanese	WAJ6000	12	1	"A" in JPN 3 or teacher approval
Korean 1	WAK1000	09-12	1	None
Korean 2	WAK2000	10-12	1	Korean 1
Korean 3	WAK3000	11-12	1	Korean 2
Korean 4	WAK4000	12	1	Korean 3
Spanish 1	WES1000	09-12	1	None
Spanish 2	WES2000	10-12	1	Spanish 1
Spanish 2 Honors	WES2000H	10-12	1	Spanish 1 "B" or higher
Spanish 3	WES3000	11-12	1	Spanish 2
Spanish 3 Honors	WES3000H	11-12	1	Spanish 2 "B" or higher
Spanish 4	WES4000	12	1	Spanish 3
*AP Spanish	WES6000	12	1	"B" in Spanish 3 or teacher or approval after an interview.

***Students must turn in signed AP parent contract to complete their enrollment in this course.**

WORLD LANGUAGES

ILOKANO FOR HEALTH SCIENCES WLD4000E1/WLD4000E2 .5/.5 credit Open to: 11-12

This course is designed for the students interested in careers in health and sciences to focus on the specific linguistic and cultural skills necessary in health-related fields. Using the human anatomical systems as the framework, students will learn about common health problems for each body system as well as the various health care provider responsible for the diagnosis and treatment of each system related disease, illness or injury. The course will provide students with specialized vocabulary, conversational abilities, and interpersonal skills to enable them to communicate more effectively with Ilokano speakers on the job. Students in this course will develop their listening, speaking, reading, and writing skills in a health sciences context. The course will use pre-designed dialogues to review and learn vocabulary and grammar structures, as well as workshop settings designed to put students into scenarios where they can use both speaking and listening skills. Oral communication and practical medical vocabulary will be emphasized and culture will be integrated with language study.

World Languages Level 1

A Year 1 language learner is someone who is a complete beginner and has no prior knowledge of the language or someone who has a very basic understanding of the language. Teachers will gently immerse students in the Target Language so students have the opportunity to naturally acquire the language.

The focus of Year 1 is to develop basic comprehension skills of the Target Language. Those skills will progress gradually as students take in more and more Target Language by listening and reading, followed by speaking and writing skills as proficiency develops.

World Languages Level 2

A Year 2 language learner is someone who has some prior knowledge of the language. Teachers will continue to immerse students in the Target Language so they have the opportunity to naturally acquire the language. The focus of Year 2 is to develop more comprehension skills of the Target Language. Those skills will progress gradually as students take in more and more Target Language by listening and reading, followed by speaking and writing skills as proficiency develops.

** Honors courses will follow the same guidelines, but will progress at a quicker pace and explore topics in more detail.

World Languages Level 3

A Year 3 language learner is someone who has significant prior knowledge of the language. Teachers will continue to immerse students in the Target Language so they have the opportunity to naturally acquire the language. Teachers and students will use the Target Language 90% of the time from Day 1.

The focus of Year 3 is balanced between comprehension skills and production of the Target Language. Those skills will continue to progress as students take in more and more Target Language by listening and reading, followed by speaking and writing skills as proficiency develops.

** Honors courses will follow the same guidelines, but will progress at a quicker pace and explore topics in more detail.

World Languages Level 4

A Year 4 language learner is someone who has the skills to use the Target Language. Teachers will continue to refine students' Target Language abilities. Teachers and students will continue to use the Target Language 90% of the time. The focus of Year 4 continues to balance comprehension skills and production of the Target Language.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
GUIDANCE				
Career & Life Planning	TGG1100	10	0.5	None
Advance Guidance/ Study Skills	TGG1104/ XAG1011	12	0.5/0.5	Teacher Approval

CAREER & LIFE PLANNING TGG1100

0.5 credit Open to: 12

Guidance is designed to enable students to be college and career ready through self-exploration of their personal interests. The course will teach students universal skills that are applicable to any career as well as important life skills like managing personal finances. Students will make tentative long and short-range educational and/or career plans as well as participate in Design Thinking projects and a mock interview. **The PTP 0.5 credit is awarded during student's senior year after final completion of all PTP requirements and is REQUIRED TO GRADUATE.**

This semester course is paired with Health (HLE1000).

ADVANCE GUIDANCE TGG1104

0.5 credit Open to: 12

Want to go to college? Worried about the costs of college? The college application process is stressful and TIME CONSUMING during your senior year. You will have time three days a week to focus just on your college application process. Topics covered will include: What colleges to apply to, application requirements, SAT/ACT testing, the college essay (very important), financial aid (FAFSA, scholarships, etc.), housing, acceptance letters, insider tips, etc. These steps will be examined through college references, the internet, guest speakers from colleges such as admissions directors and college students, and field trips to college campuses and fairs. This course will be taken together with "Study Skills" XAG1010.

STUDY SKILLS XAG1011

0.5 credit Open to: 12

A continuation of the Advance Guidance class especially focusing on continuing college scholarships. In addition, this course is designed to help students develop greater skills and success in studying in the college atmosphere. Students learn to make effective use of time and resources through improved reading, writing, listening, study group formation, and test-taking. Will also cover topics of college life to help avoid common pitfalls of incoming freshmen.

HEALTH

Health Today and Tomorrow	HLE1000	10	0.5	None
HLE1000 and TGG1100 will be taken in opposite semesters from each other.				

HEALTH HLE1000

0.5 credit Open to: 10

Students in this course will develop and practice skills that will promote and protect the health of self and others. Students engage in in-depth discussion and exploration of current health issues and health trends for adolescents. Content areas can include but are not limited to: Mental and Emotional Health, Healthy Eating and Physical Activity, Personal Health and Wellness, Safety and Prevention of Unintentional Injury and Violence, Promoting Tobacco, Alcohol and other drug-free lifestyles, and Sexual Health and Responsibility. Emphasis will be placed on the application of standards-based health knowledge and skills in making healthy personal choices, and in advocating for the health of others.

This semester course is paired with Career & Life Planning (TGG1100).

PHYSICAL EDUCATION (BOYS/GIRLS)

Physical Education Required(1st Sem)

Phys Ed Lifetime Fitness	PEP1005	09	0.5	None
Physical Education Basic Elective(2nd Sem)				

Phys Ed Lifetime Activities	PEP1010	09	0.5	None
Physical Education Specialized Elective				

Weight & Resis. Training 1A / Weight & Resis. Training 1B	PWP1210/ PWP1220	10-12	0.5/0.5	PE Lifetime Fit/Activities
Weight & Resis. Training 2A / Weight & Resis. Training 2B	PWP1230/ PWP1240	11-12	0.5/0.5	Weights 1A/B

Team Sports 1/ Team Sports 2	PTP1640/ PTP1650	10-12	0.5/0.5	PE Lifetime Fit/Activities
Body Conditn 1A Life/ Body Conditn 1B Life	PBP1110/ PBP1120	10-12	0.5/0.5	PE Lifetime Fit/Activities

PHYSICAL EDUCATION, LIFETIME FITNESS PEP1005 0.5 credit Open to: 09
 This course will emphasize lifetime sports with individual and team activities in which students can participate during leisure hours. The development of skills and strategy will be stressed.

Recommend: None

PHYS ED LIFETIME ACTIVITIES PEP1010 0.5 credit Open to: 09
 A revisit and application of the students' four year personal fitness plan, acquisition and application of skills, understanding of rules and strategies, importance of fair play, and the transfer of skills into lifetime activity situations.

Recommend: None

WEIGHT & RESISTANCE TRAINING 1A PWP1210 0.5 credit Open to: 10-12
WEIGHT & RESISTANCE TRAINING 1B PWP1220 0.5 credit Open to: 10-12

Fundamentals to weight training, skeletal-muscular instruction, and physical fitness will be covered in this course. This course is an introductory course that teaches the basics as well as the benefits of weight training.

Recommend: PE Lifetime Fitness and PE Lifetime Activities.

WEIGHT& RESISTANCE TRAINING 2A PWP1230 0.5 credit Open to: 11-12
WEIGHT& RESISTANCE TRAINING 2B PWP1240 0.5 credit Open to: 11-12

This course is primarily for students who have had prior instruction in weight training, skeletal-muscular system, and physical fitness. It is primarily for students interested in continuing a training program based on his/her own individual needs. **Recommend:** Weight & Resistance Training 1A/B or teacher approval.

TEAM SPORTS 1 PTP1640/ TEAM SPORTS 2 PTP1650 0.5/0.5 credit Open to: 10-12

This standards-based course is designed to strengthen physical movement forms, concepts, principles, and skills through participation in a variety of team activities. Students will learn to work together to accomplish team or group goals & object. The emphasis is on the skills required to perform some movement forms at a basic level, and at most at the mastery level.

Recommend: PE Lifetime Fitness and PE Lifetime Activities.

BODY CONDITIONING 1A PBP1110 0.5 credit Open to: 10-12
BODY CONDITIONING 1B PBP1120 0.5 credit Open to: 10-12

This standards-based course is designed to introduce a range of aerobic training activities that could be incorporated into a total body conditioning program. Students will apply these aerobic activities to develop and/or update a training program that applies the Frequency, Intensity, Time, and Type (FITT) principle and emphasizes total body conditioning. Aerobic activities may include: cardio-kick boxing, step aerobics, dance aerobics, brisk-walking, running and/or jogging, swimming, cycling, aqua-aerobics, Tae Bo, etc. Activities should reinforce the three parts of an aerobic activity – warm-up, cardio, cool down – and the importance of each to the overall benefits of a successful workout. As a result of this course cardiorespiratory endurance, muscular endurance, flexibility and coordination will improve and an appreciation for aerobics as a lifetime activity will be reinforced. Key features of this course: introduce a range of aerobic activities; develop and implement a body conditioning program that incorporates a variety of aerobic activities; reinforce the different parts of an aerobic exercise.

Recommend: PE Lifetime Fitness and PE Lifetime Activities.

<u>SUBJECT</u>	<u>COURSE NO.</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	<u>RECOMMEND</u>
----------------	-------------------	--------------------	---------------	------------------

MULTIDISCIPLINARY COURSES

YEARBOOK

Yearbook Production 1	XY8610	9-12	1	None
Yearbook Production 2	XY8630	9-12	1	Teacher Approval
Yearbook Production 3	XY8650	9-12	1	Teacher Approval
Yearbook Production 4	XY8670	9-12	1	Teacher Approval

YEARBOOK PRODUCTION 1 XY8610

1 credit Open to: 9-12

This course introduces students to planning and producing the school's yearbook. Writing of copy, captions, and headlines; typing; designing and completing layouts; working with photography; and meeting deadlines are included.

YEARBOOK PRODUCTION 2 XY8630

1 credit Open to: 9-12

This course is for advanced yearbook students. Students are assigned sections to edit, and plan and supervise the work of others on the section. As editors, they also work with faculty members and the administrative staff in planning, scheduling, and carrying out the work to be done.

YEARBOOK PRODUCTION 3 XY8650

1 credit Open to: 9-12

This course is for students who have taken Yearbook Production 2. Because of their experience, students in this course will assume major responsibility for planning and producing a yearbook. **Recommend:** Yearbook Production 2

YEARBOOK PRODUCTION 4 XY8670

1 credit Open to: 9-12

This course if for students who have taken Yearbook Production 3. Because of their experience, students will assume additional responsibilities in planning and producing a yearbook. **Recommend:** Yearbook Production 3.

AVID

AVID-College/Career Ready	TGG8090	09	1	None
AVID-College/Career Ready	TGG8100	10	1	None
AVID-College/Career Ready	TGG8110	11	1	None
AVID-College/Career Ready	TGG8120	12	1	None

AVID Program – College Preparation

1 credit Open to: 09-12

Gr 09: TGG8090 Gr 10: TGG8100 Gr 11: TGG8110 Gr 12: TGG8120

AVID stands for Advancement Via Individual Determination. AVID is a system to prepare students for four-year college eligibility. AVID targets students who have the desire to go to college and the willingness to work hard. These are students who are capable of completing rigorous curriculum but may be falling short of their potential. AVID puts them on the college track: acceleration instead of remediation. Emphasis is on career and college readiness.

Please see the AVID counselor for an application.

STUDENT TRAINING

(ONLY ONE LEADERSHIP TRAINING PER STUDENT GRADE 11-12)

Counselor Aide	XLP4000C	11-12	1	Signature: Ms. Rivera
Registrar's Training	XLP4000R	11-12	1	Signature: Mr. Miyashiro
S.G. Leadership Training	XLP5000	09-12	1	Signature: Ms. Takara
Leadership Training (Teacher Aide)	XLP4000	11-12	1	Teacher Approval

COUNSELOR'S AIDE XLP4000C

1 credit Open to: 11-12

Course involves work in guidance office with counselors. Typing skills preferred. Work includes filing and cataloging of guidance materials, typing, making appointments with student.

Rm. Counseling, Ms. Rivera

REGISTRAR'S AIDE XLP4000R

1 credit

Open to 11-12

Student will be working in the registrar's office. Typing and/or computer knowledge are recommended but are not required. Student will be learning basic office skills that can be applied to the work world. This is an opportunity to receive hands on experience while earning an elective credit. Rm: Office, Mr. S. Miyashiro

STUDENT GOVERNMENT LEADERSHIP TRAINING XLP5000

1 credit

Open to: 09-12

- Objective:
1. Develop skills of communication.
 2. Develop knowledge and skills in parliamentary procedures.
 3. Develop skills in group process.

A course designed to study the concepts of group processes -- cooperative planning, shared responsibilities, positive action and mutual understanding. Emphasis is on student participation and involvement with real school and student concerns as means to understand levels of organization, levels of authority, communication and management techniques. Application of leadership is taught as a function that can be performed by any member of a group or shared by several at one time. Course repeatable. **Recommend:** Rm. SG Office: Mrs. J. Takara

LEADERSHIP TRAINING XLP3000/XLP4000

1 credit

Open to: 11-12

Student will help subject teacher in lab., classroom, workroom, etc. Student will need to find a teacher to TA for during the registration process.

SPECIAL PROGRAMS AND COURSES**ENGLISH FOR SPEAKERS OF OTHER LANGUAGES**

ESOL 1A/ESOL 1B	NEI1020/NEI1025	09-12	0.5/0.5	Teacher Approval
ESOL 2A/ESOL 2B	NEI1030/ NEI1035	09-12	0.5/0.5	Teacher Approval

S P E C I A L P R O G R A M S A N D C O U R S E S**ENGLISH FOR SPEAKERS OF OTHER LANGUAGES IA NEI1020** 0.5 credit Open to: 09-12

This course introduces the English language to the non-native English speaker. The emphasis of this beginning course is the development of listening skills necessary for the development of English oral proficiency which will improve the non-native English speaking student's basic interpersonal communication skills (BICS). Besides instruction to develop BICS, learning activities will also introduce and stimulate the student's cognitive academic language proficiency (CALP). The goals for this course are: (1) To teach students to identify and name, in English, things and concepts common to his/her environment; (2) To teach the different parts of speech and their correct usage through simple grammatical structures using age-appropriate examples; (3) To develop aural discrimination to allow recognition of meaningful differences in the English sound system; (4) To develop pronunciation that is clear enough to be understood by native English speakers; and (5) To distinguish sounds, rhythms, stress, and intonation of English and to demonstrate understanding through reactions and/or appropriate verbal responses.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES IB NEI1025 0.5 credit Open to: 09-12

This course continues instruction to promote the student's oral proficiency in English, but also introduces fundamental concepts in the processes of reading and writing. Instruction in this course continues to emphasize the five goals in the first course, but at a higher level of difficulty. In addition to the five goals, two other goals that promote English language literacy development should also be accomplished in the later part of this course. The two additional goals are: (1) To teach a progression of reading skills that will enable the student to decode and comprehend the written word; and (2) To continue the development of the mechanics of manuscript and cursive handwriting and its association to the formation of words in the Note: For ESOL students, successfully finishing 9th grade, NAF/Academy of Engineering (AOE) will accept registration and arrange scheduling for 10th grade entry and out years to support completion of the AOE program.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES 2A NEI1030 0.5 credit Open to: 09-12

This course exposes the non-native English speaking students to progressively complex aural/oral and literacy examples in the English language. The goals and objectives of this and the following ESOL course are: (1) To teach the meaning of English words in context according to the appropriate language development level of the student; (2) To teach grammatical structures according to the appropriate language development level of the student; (3) To teach skills for expansion of the students' sentences; (4) To continue to develop oral discrimination skills to allow for faster recognition of meaningful differences in the English sound system; (5) To develop decoding skills in English; (6) To develop comprehension skills appropriate to the students' reading levels; and (7) To teach the mechanics of writing.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES 2B NEI1035 0.5 credit Open to: 09-12
 This course further exposes the non-native English-speaking students to more complex aural/oral and literary works. The core content-area concepts and materials may be used to develop the student's cognitive academic language proficiency. A variety of practical learning activities are planned and used in the instruction to provide students with a wide range of learning opportunities to practice oral English language skills and literacy. At this level, there is an emphasis on understanding some nuances and complexities of the English language, such as analogies, registers, jokes, humor, etc., and using them appropriately.

JUNIOR RESERVE OFFICER'S TRAINING (JROTC) PROGRAM

SUBJECT	COURSE NO.	GRADE LEVEL	CREDIT	RECOMMEND
Army JROTC 1	TJR1000	09-12	1	None
Army JROTC 2	TJR2000	10-12	1	Teacher Approval
Army JROTC 3	TJR3000	11-12	1	Teacher Approval
Army JROTC 4	TJR4000	12	1	Teacher Approval

JUNIOR RESERVE OFFICERS TRAINING CORPS (JROTC)

ARMY JROTC 1 TJR1000 1 credit Open to: 09-12

This Program of Instruction (POI) focuses on the development of better citizens through the instruction of skills in leadership, citizenship, life success, geography, and wellness, in a structured interactive environment. The JROTC program is a cooperative effort on the part of the Army and the host institution to provide secondary school students with opportunities for total development. The flexibility of the program allows it to bear the scrutiny of professional educators and to meet the needs of the community. Satisfactory completion of the program can lead to advanced placement credit in the Senior ROTC program or advanced rank in the Armed Forces.

The JROTC program is one of the Army's contributions to assisting America's youth to become better citizens. The program produces successful students and productive adults, while fostering in each school a more constructive and disciplined learning environment. This program makes substantial contributions to many communities and ultimately to the nation's future. It is the centerpiece of the Department of Defense's commitment to America's Promise for Youth through its emphasis on community service and teen anti-drug efforts.

Recommend: None

ARMY JROTC 2 TJR2000 1 credit Open to: 10-12

Recommend: Satisfactory completion of **ARMY JROTC 1**

ARMY JROTC 3 TJR3000 1 credit Open to: 11-12

Recommend: Satisfactory completion of **ARMY JROTC 2**

ARMY JROTC 4 TJR4000 1 credit Open to: 12

Recommend: Satisfactory completion of **ARMY JROTC 3**

STEM CAPSTONE

STEM CAPSTONE XAT1000 1 credit Open to: 12

The purposes of the STEM Capstone project are for students to develop literacy in each of the STEM disciplines, make connections between STEM disciplines, develop interest and engagement in STEM disciplines, engage in STEM practices and develop STEM competencies, and prepare for college, career, and community.

ARTIFICIAL INTELLIGENCE

ARTIFICIAL INTELLIGENCE TIA2000 1 credit Open to: 12

This course is an overview for students interested in health care with a focus on informatics and health care technologies used in the management of individuals, groups, and organizations for the improvement of patient outcomes and population health. A variety of informatics topics including telehealth, interoperability, safety, privacy/security, big data and AI/machine learning will be introduced. Using the Data, Information, Knowledge, Wisdom (DIKW) model of data to information to knowledge to wisdom, students will gain project-based experience they can apply in other academic programs and in their professional careers.

GENERAL WORK-BASED LEARNING – sUAS COMMERCIAL DRONES

GENERAL WORK-BASED LEARNING TGG4100

1 credit

Open to: 12

General WBL is a general course in CTE. It is intended to provide a work-based learning experience for students to develop the understanding of professional and ethical issues, utilize employability skills, and demonstrate mastery of academic and technical skills learned through the study of small unmanned aircraft systems. The work-based learning experience provides opportunities to apply and practice the knowledge and skills learned and gives students hands-on practical experiences related to professions in SUAS Commercial Drones. Upon completion of the course, a proficient student will be able to understand the requirements to become a drone pilot, the effects of weather on small unmanned aircraft performance, radio communication procedures, the physiological factors that affect pilot performance, airport operations, maintenance procedures, preflight inspection procedures, aeronautical decision-making and judgment, necessary steps toward applying for a job, and reflect on program goals and aspirations. Instruction will be delivered through the classroom environment in conjunction with a work-based learning preparation. The student will be prepared to take the Part 107 FAA Drone Remote Pilot Certification from the United States Federal Aviation Administration.