HAWAIIAN

HAW 101 Elementary Hawaiian I (4) KCC AA/HSL
4 hours lecture per week

HAW 101 introduces the study of basic structures of the Hawaiian language with emphasis on the five recognized skills: listening, speaking, reading, writing, and cultural understanding.

Upon successful completion of HAW 101, the student should be able to:
1. Communicate orally in Hawaiian at a novice mid level.
2. Produce and interpret written Hawaiian at a novice mid level.
3. Utilize vocabulary and other language skills that integrate work, school, family, 'āina, and language in real life.
4. Recognize the relationship between the practices and perspectives of Hawaiian culture.

HAW 102 Elementary Hawaiian II (4) KCC AA/HSL
4 hours lecture per week

Prerequisite(s): A grade of "C" or higher in HAW 101 or satisfactory score on language placement test or consent of instructor.

Comment: If student has taken Hawaiian Language in the past prior to enrolling into College, taking the Hawaiian language placement test or seeing a Hawaiian language instructor is recommended. If you are placed in HAW 102, filling out the back credit form for Hawaiian language is also recommended. Contact: ʻIwalani Koide at tiwalani@hawaii.edu

HAW 102 focuses on basic structures of the Hawaiian language with emphasis on the five recognized skills of language acquisition: listening, speaking, reading, writing, and cultural understanding. This course is taught within the context of the contemporary culture of the Hawaiian people.

Upon successful completion of HAW 102, the student should be able to:
1. Communicate orally in Hawaiian at a novice high level.
2. Produce and interpret written Hawaiian at a novice high level.
3. Utilize vocabulary and other language skills that integrate work, school, family, 'āina, and language in real life.
4. Recognize the relationship between the practices and perspectives of Hawaiian culture.

HAW 201 Intermediate Hawaiian I (4) KCC AA/HSL
4 hours lecture per week

Prerequisite(s): A grade of "C" or higher in HAW 102 or satisfactory score on language placement test or consent of instructor.

Comment: If student has taken Hawaiian Language in the past prior to enrolling into College, taking the Hawaiian language placement test or seeing a Hawaiian language instructor is recommended. If you are placed in HAW 201, filling out the back credit form for Hawaiian language is also recommended. Contact ʻIwalani Koide at tiwalani@hawaii.edu

HAW 201 is a continuation of HAW 102. Further development of the five recognized skills of language acquisition: listening, reading, writing, speaking, and cultural understanding in the Hawaiian language. Students will gain these five skills, attaining the Intermediate Low level on the ACTFL proficiency scale.

Upon successful completion of HAW 201, the student should be able to:
1. Communicate orally in Hawaiian at an intermediate low level.
2. Produce and interpret written Hawaiian at an intermediate low level.
3. Demonstrate an understanding of the grammatical and structural aspects of Hawaiian.
4. Apply and interpret vocabulary and other language skills that integrate work, school, family, 'āina, and language in real life applications.
5. Hōʻike (Demonstrate) practices and perspectives of Hawaiian culture.

HAW 202 Intermediate Hawaiian II (4) KCC AA/HSL
4 hours lecture per week

Prerequisite(s): A grade of "C" or higher in HAW 201 or satisfactory score on language placement test or consent of instructor.

Comment: If student has taken Hawaiian Language in the past prior to enrolling into College, taking the Hawaiian language placement test or seeing a Hawaiian language instructor is recommended. If you are placed in HAW 202, filling out the back credit form for Hawaiian language is also recommended.

HAW 202 is a continuation of HAW 201. Further development of the five recognized skills of language acquisition: listening, reading, writing, speaking, and cultural understanding in the Hawaiian language. Students will gain the five skills, attaining the Intermediate Mid level on the ACTFL proficiency scale.

Upon successful completion of HAW 202, the student should be able to:
1. Communicate orally in Hawaiian at an intermediate mid level.
2. Produce and interpret written Hawaiian at an intermediate mid level.
3. Demonstrate an understanding of the grammatical and structural aspects of Hawaiian.
4. Apply and interpret vocabulary and other language skills that integrate work, school, family, ʻāina, and language in real life applications.
5. Hōʻike (Demonstrate) practices and perspectives of Hawaiian culture.

HAW 224 Intermediate Hawaiian Reading (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in HAW 202 or consent of instructor.

HAW 224 is an intermediate level course taught in the medium of Hawaiian language. This course will serve as a bridge course to the third year Hawaiian language classes by increasing fluency in reading, writing, and speaking in the target language.

Upon successful completion of HAW 224, the student should be able to:

1. Demonstrate ease and fluency in reading a variety of Hawaiian language texts including historical documents, stories, chants, songs, newspapers, fiction and non-fiction.
2. Apply pre-reading skills to Hawaiian texts in order to focus attention on the material and be able to better comprehend overall theme and major ideas without having to translate word for word.
3. Show ability to read and decipher older Hawaiian language documents written without diacritical marks and understand orthographic conventions and grammar patterns unique to written Hawaiian.
4. Explain basic elements of Hawaiian literary style including the use of wise sayings, repetition, play on words, natural imagery, dualism, naming, songs of praise glorifying heroes and chiefs.
5. Demonstrate ability to formulate comprehension questions, to summarize and analyze written Hawaiian materials.
6. Demonstrate sensitivity to the vibrant poetic, cultural heritage and distinctly Hawaiian world views embodied in Hawaiian language texts.

HAW 261 Hawaiian Literature in Translation: Pre-1800 traditions (3) KCC AA/DL
3 hours lecture per week
Prerequisite(s): HAW 101.
Recommended Preparation: Credit in or placement in HWST 107.

HAW 261 is a survey of Hawaiian oral arts and traditions in translation, including narratives, chants, and proverbs from the period before Western contact, with reference to Polynesia and Western themes and forms.

Upon successful completion of HAW 261, the student should be able to:

1. Demonstrate knowledge of the world view that is exemplified in Hawaiian oral arts and traditions.
2. Demonstrate knowledge of the forms and content of Hawaiian oral arts and traditions.
3. Identify major themes in Hawaiian oral arts and traditions and explore their implications.
4. Identify and explain figurative language and narrative, poetic, and linguistic techniques used by storytellers, chanters, and orators.
5. Express ideas and opinions about Hawaiian oral arts and traditions clearly and convincingly, both orally and in writing, using the terminology of literary and/or cultural analysis and providing textual evidence to support opinions and ideas.

HAW 262 Hawaiian Literature in Translation: 1800 to Present (3) KCC AA/DL
3 hours lecture per week
Prerequisite(s): HAW 102.
Recommended Preparation: HWST 261.

HAW 262 offers a survey of Hawaiian literature, featuring selected works by Hawaiian authors from the period following Western contact (c. 1800) and the introduction of writing and the printing press. While texts translated into English will be the required readings, selected Hawaiian texts may be presented for comparative purposes.

Upon successful completion of HAW 262, the student should be able to:

1. List and describe some of the major authors of Hawaiian literature.
2. Consider works of Hawaiian literature as reflections of their cultural milieu and compare that milieu with his or her own.
3. Give examples of various forms and content of Hawaiian literature.
4. Discuss major themes in Hawaiian literature, explain their implications, and identify their basic assumptions.
5. Identify and explain figurative language and narrative, poetic, and linguistic techniques used by authors of Hawaiian literature.
6. Express insights and responses to Hawaiian literature clearly and effectively both orally and in writing, using the terminology of literary and/or cultural analysis and providing textual evidence to support opinions and ideas.
Upon successful completion of HWST 100, the student should be able to:

Importance of connecti

Concepts that still influence Hawaiian thinking today, including the intimate connection between human beings and nature, the

HWST 100 is an introduct

Recommended Preparation: HAW 101.

3 hours lecture, 3 hours lab per week (3 hula ha'ia'o/3 hola ma ka hana ka 'ike o na pule pakahi)

Prerequisite(s): Students must be native or bilingual speakers of Hawaiian and English or advanced level Hawaiian speaking students. Instructor consent of instructor. (Ko'ina Mua: He pono ka haumana i ke kulana manaleo, kulana olole lua Hawai'i me ka Huole, a i 'ole kulana 'olelo Hawai'i ki'eki'e. He pono ka 'apono 'ia a ke kumu.)

Comment: HWST 200 is offered in the Spring semester only. HWST 200 is designed for native speakers, bilingual and advanced level Hawaiian speaking students. Instructor approval is required. (Mana'o Ho'opuka: Ua haku 'ia ka papa 290 na haumana i ke kulana manaleo, kulana olole lua a i 'ole kulana 'olelo Hawai'i ki'eki'e. He pono ka 'apono 'ia a ke kumu.)

I ka ho'okō kūpono o ka papa HAW 290, e hiki ana i ka haumāna ke:

- E hō'ike aku i ke kūlana ki'eki'e waena o ka 'ōlelo Hawaiʻi me kona mau pilina 'ōlelo.
- Ma o ka 'ōlelo me ke kākau e ho'ohana ai i ka no’ono’o kūpono me nā hana ho'oponoipo i pili pū i nā ʻamemehu me aho mai ma luna o ka 'ōlelo Hawaiʻi i ma ka 'imi na'auao, 'ike Hawaiʻi me ka 'ike laulā, ho'omanā, hana kālai'aiina, me ka malama 'āina.
- Hō'oi 'ike maka me ka ho'ohana i nā kūmole ha'iwaha mo'o'olelo, 'ōlelo Hawaiʻi, me nā palapala kūmole 'ōlā o Hawaiʻi. Kālailai i ka pilina i ka 'ike kākea Hawaiʻi, kākau kūpuna, me ka 'ōlelo kūpuna. Ho'ohana i niēa kālailai i ka ha'awina o nā papa 'e a'e.
- Ho'okā i na hana no'i i me ka ho'ohana pū i nā nūpepa 'ōlelo Hawaiʻi, nā kākau kaila Hawaiʻi, ma o ka 'ōlelo Hawaiʻi me kona pilina i ka mo'omēheu me ko ke kanaka 'ike ʻākea.
- Ma o ka 'ōlelo a me ke kākau e hō'ike aku ai i ka hana mālama 'āina me ka ho'ohana kūpono 'ia o nā hua'olelo me nā pilina 'ōlelo ma nā ha'i'ōlelo, ke kūkākākā, a me ka hana kākau.
- Mea kūlike me nā mea 'oko'a ma waena o ka mo'omēheu Hawaiʻi i me ke 'ano o ka 'Amelika.
5. Explain the major activities and occupations of everyday life in traditional Hawaiian culture and the various factors that influenced subsequent changes, up to and including contemporary times.
6. Correlate major events in Hawaiian history with their subsequent impacts on Hawaiian culture.
7. Evaluate their own personal stake/perspective/connection to the topics and material covered in class as members of the society currently living in the islands.

HWST 107 Hawai‘i: Center of the Pacific (3) KCC AA/DH and KCC AS/AH

3 hours lecture per week
Recommended Preparation: ENG 100 or ENG 160 or ESL 100.

HWST 107 Surveys the Pacific Islands of Melanesia, Micronesia, and Polynesia; their various origins, geography, languages, religions, colonial histories and modern development, seen through the cultural lens of the Hawaiian people.

Upon successful completion of HWST 107, the student should be able to:
1. Demonstrate knowledge of the origins, migrations and settlement patterns of Oceania.
2. Show knowledge of similarities and differences between Native Hawaiians and other Oceanic people’s cultures, languages, religions, arts and natural resources.
3. Explain the connections of historical events to modern issues in relation to the unique social, political and economic history of Hawaii, including concepts such as colonization and decolonization, occupation, independence movements, sovereignty.

HWST 110 Huaka‘i Wa‘a: Introduction to Hawaiian Voyaging (3)

3 hours lecture per week
Prerequisite: Qualification for ENG 100 or ESL 100.
Recommended Preparation: Familiarity with Hawaiian language and culture.

HWST 110 introduces students to modern Hawaiian canoe voyaging through an examination of the science and narratives of ancient voyaging, the history of the modern revival of voyaging, and the Hawaiian navigator’s toolkit.

Upon successful completion of HWST 110, the student should be able to:
1. Locate and name the islands and island groups of Oceania.
2. Explain the various aboriginal and academic narratives relating to the migration to and settlement of Oceania.
3. Discuss the historical and cultural events leading to the revival and reestablishment of Hawaiian voyaging.
4. Describe the tools contemporary navigators use for open-ocean voyaging.

HWST 207 Hawaiian Perspectives in Ahupua’a Resource Management (3) KCC AA/DH and KCC AS/AH

3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in HWST 107.
Comment: Transportation may be required for off campus visits to different ahupua’a or wahi pana.

HWST 207 will examine the ahupua’a system: its mythologies, place names, history, poetry and early documents of the Hawaiian nation, as it was conceptualized by the ancient Hawaiians and exploration of its relevance in modern society. The primary focus of this course will be the Hawaiian land division: the Ahupua’a. Through an understanding of the ahupua’a, students will become familiar with perspective on Hawaiian resource management and Hawaiians’ relationship with the ‘āina. This course will emphasize ‘Āina based learning.

Upon successful completion of HWST 207, the student should be able to:
1. Describe Hawaiian Perspectives in resource management and geography.
2. Identify various Hawaiian methods of knowing a place.
3. Demonstrate the use of appropriate archival resources as related to Hawaiian resource management.
4. Compare/contrast the use of ideographic and nomothetic approaches as applied to ‘Āina based learning.

HWST 216 History of Surfing (3) KCC AA/DH

3 hours lecture per week
Recommended Preparation: HWST 107.

HWST 216 is a study of the traditional native sports practices of the Hawaiian people that symbolized the native people’s relationship to the ‘āina (land) and how such sports are significant components to understanding the Hawaiian culture, and were/are unique identifiers of the native identity.

Upon successful completion of HWST 216, the student should be able to:
1. Locate surfing within the tradition of sports practices of the Hawaiian people and discuss its cultural significance.
2. Use archeological concepts to reconstruct the origins and significance of native architecture as it pertains to surfing.
3. Describe the native Hawaiian environment and its natural resources, and explain how surfing has a significance in their proper management.
4. Explain the significance and physical characteristics of native imagery.
Recommended preparation: Qualification for ENG 100.

Prerequisite(s): HWST 100

3 hours lecture per week

HWST 270 Hawaiian Mythology (3) KCC AA/DL

Recommended preparation: Qualification for ENG 100.

Upon successful completion of HWST 270, the student should be able to:

1. Analyze critically, through the lens of surfing, the cultural impact and the residual effects of the Western value system on the physical and spiritual world of the Hawaiian people.

HWST 222 Introduction to Hawaiian Fiber Arts Studio: Hana No'ēau Māʻawe (3) KCC AA/DL and KCC AS/AH

6 hours lecture/lab per week

Recommended preparation: HAW 101.

Comment: Materials and supplies for HWST 222 will cost approximately $80.00. HWST 222 may not be audited.

HWST 222 offers an introduction to a variety of fibers used in Hawaiian culture. Emphasis on cultivation, preparation, uses and conservation of fibers. Areas explored are kapa, plaiting, netting and twining.

1. Explore and develop an understanding of historical and cultural application of Hawaiian customary practices in fibers by planning, preparing, creating, and finishing, in a timely manner, projects of Hawaiian cultural relevance through documentation and practice. Ulana (plaiting), Kapa (bark cloth), 'Upena (netting) and Hana 'leʻe (twining).
2. Research and write a cultural research paper that articulates the cultural practice of each fiber media (4) learned within this course.

HWST 255 Introduction to the Hawaiian Kingdom (3) KCC AA/DH

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in HWST 107.

HWST 255 focuses on the Hawaiian Kingdom era covering two major historical periods: the first from 1810 until 1893; the second from 1893 to the present. This course focuses primarily on the first historical period, allowing the legal, political, and economic conclusions from that era to inform and provide for us a continuity into the second historical period. Major topics addressed in this course are: unification; the Hawaiian Constitutions; recognition and nationhood in 1843; feudal and allodial land systems; the Hawaiian economy; the Hawaiian monarchs; the occupation of the Hawaiian Islands; issues and methods of de-occupation; historical, political, legal, and economic global contexts.

Upon successful completion of HWST 255, the student should be able to:

1. Trace the development of the Hawaiian Kingdom from a pre-contact feudal society to an internationally recognized Nation-State;
2. Define and contrast various legal terms used in both Domestic and International Law;
3. Compare and contrast objective versus subjective and positive versus normative interpretations of knowledge;
4. Apply methodological reasoning as analysis for discussions on various models of historical, political, and economic constructs;
5. Describe the internal workings of the various Hawaiian Constitutions, their creation, implementation, and legal authority.
6. Analyze the theory, legal basis, and import of the Mahele as a unique land tenure conversion system.
7. Explain the genealogy, historical significance, and various roles in government of the Aliʻi Nui.

HWST 257 Māhele: Hawaiian Land Tenure (3) KCC AA/DH and KCC AS/AH

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in HWST 107.

Comment: Transportation may be required for off campus visits to the Hawaii State Archives, Bureau of Conveyance, Hawaii State Survey Office, Honolulu Tax Map Office, and other governmental and public archives.

HWST 257 is an introduction to the Māhele of 1848 and the evolution of Hawaiian Land tenure resulting in a hybrid system of private property in the mid-19th century. This course will survey 1) the major conceptual categories of land title that was created (Government Lands, King/Crown Lands and Land Commission Awards) and 2) the specific instruments of title created (Royal Patent Grants, Land Patent Grants, Kamehameha Deeds, Crown Land Leases, Oral Gifts, Konoiki Awards and Kuleana Awards) in the evolution from an oral to a written system of land title. Emphasis will be placed on improving the students' information literacy skills with primary and secondary data sources. This course will also discuss the implications of Hawaii's unique system of land law and how traditional land rights are applicable today.

Upon successful completion of HWST 257, the student should be able to:

1. Describe the important terminology, concepts and facts associated with Hawaiian land tenure.
2. Identify the appropriate use and application of Primary and Secondary Source material in relation to the Māhele.
4. Explain the connections of historical events to modern issues in relation to the unique evolution of Hawaiian land law (including concepts such as occupation, sovereignty, civil/common law legal systems, and "ceded lands").

HWST 222 Introduction to Hawaiian Fiber Arts Studio: Hana Noʻēau Māʻawe (3) KCC AA/DS

6 hours lecture per week

Upon successful completion of HWST 222, the student should be able to:

1. Explore and develop an understanding of historical and cultural application of Hawaiian customary practices in fibers by planning, preparing, creating, and finishing, in a timely manner, projects of Hawaiian cultural relevance through documentation and practice. Ulana (plaiting), Kapa (bark cloth), 'Upena (netting) and Hana 'leʻe (twining).
2. Research and write a cultural research paper that articulates the cultural practice of each fiber media (4) learned within this course.

Materials and supplies for HWST 222 will cost approximately $80.00.

Upon successful completion of HWST 222, the student should be able to:

1. Describe the important terminology, concepts and facts associated with Hawaiian land tenure.
2. Identify the appropriate use and application of Primary and Secondary Source material in relation to the Mahele.
4. Explain the connections of historical events to modern issues in relation to the unique evolution of Hawaiian land law (including concepts such as occupation, sovereignty, civil/common law legal systems, and "ceded lands").
HWST 270 is an introduction to Hawaiian mythology and mo'olelo as a basis of understanding (or a reflection) of Hawaiian culture, values, metaphor, and worldviews. This course will investigate and analyze oral and written Hawaiian literary sources and the roles of akua, 'aumakua, kupua, and kanaka.

Upon successful completion of HWST 270, the student should be able to:
1. Analyze the relationship between Hawaiian mo'olelo (mythologies) and Hawaiian worldview, including Hawaiian cultural values and traditions.
2. Identify and utilize written and oral sources of Hawaiian mo'olelo.
3. Employ the terminology of literary and/or cultural analysis in the study of Hawaiian mo'olelo.
4. Describe akua (deities), kupua (deities), 'aumakua (ancestral family deities), and kanaka (humans) and their various forms from Hawaiian mo'olelo.

HWST 281 Ho'okele I: Hawaiian Astronomy and Weather (3)
3 hours lecture per week
Corequisite(s): HWST 281L.
Recommended Preparation: HWST 107.
Comment: HWST 281 is repeatable up to 6 credits.

HWST 281 is an introduction to Hawaiian views of astronomy and weather, required as preparation for sailing a double hull canoe in the following semester.

Upon successful completion of HWST 281, the student should be able to:
1. Demonstrate knowledge of traditional Hawaiian and Polynesian concepts of the cosmos, space, direction, and time and explain how these concepts compare with Western concepts.
2. Identify and name the component parts of the star compass used by Polynesian Voyaging Society (PVS) trained navigators.
3. Identify and name (both Hawaiian and non- Hawaiian names) the four star lines used by contemporary Hawaiian wayfinders.
4. Identify and name the stars and constellations that make up the individual star lines.
5. Identify and explain the declination of each star and how they relate to significant places in broader Polynesia.
6. Critically examine and explain the differences between the Micronesian star compass used by Mau Piailug and the contemporary wayfinding star compass.
7. Demonstrate knowledge of the stories, both traditional and contemporary, that are attached to the stars, constellations and star lines used by wayfinding navigators.
8. Identify and explain significance of celestial bodies and atmospheric and oceanic features and conditions used in navigation and weather prediction.
9. Demonstrate a basic knowledge of non-instrument and instrument-aided navigation and weather.
10. Demonstrate a basic knowledge of the richness of the Hawaiian language in describing geography and navigation, and demonstrate knowledge of how the terminology reflects a Hawaiian worldview.

HWST 281L Ho'okele I: Hawaiian Astronomy and Weather Lab (1)
3 hours lab per week
Corequisite(s): HWST 281.
Recommended Preparation: HWST 107.
Comment: HWST 281L is repeatable up to 2 credits. Labs are scheduled at night to allow for night-sky observations.

HWST 281L is a stargazing laboratory to accompany HWST 281.

Upon successful completion of HWST 281L, the student should be able to:
1. Apply practical knowledge of traditional Hawaiian and Polynesian concepts of the cosmos, space, direction, and time and how these concepts compare with Western concepts.
2. Identify and name the component parts of the star compass used by Polynesian Voyaging Society (PVS) trained navigators in a live setting.
3. Identify and name (both Hawaiian and non-Hawaiian names) the four star lines used by contemporary Hawaiian wayfinders in a live setting.
4. Identify and name the stars and constellations that make up the individual star lines in a live setting.
5. Identify and explain the declination of each star and how they relate to significant places in broader Polynesia.
6. Apply knowledge of the stories, both traditional and contemporary, that are attached to the stars, constellations and star lines used by wayfinding navigators in a live setting.
7. Identify and explain significance of celestial bodies and atmospheric and oceanic features and conditions used in navigation a weather prediction in a live setting.
8. Demonstrate a basic knowledge of non-instrument and instrument-aided navigation and weather in a live setting.

HWST 282 Ho'okele II: Hawaiian Navigation, Weather, Canoe Design & Sailing (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week
Prerequisite(s): HWST 281 or consent of instructor.
Upon successful completion of HWST 282L, the student should be able to:

1. Recognize and explain the shared elements, conflicts, and affirmations in indigenous traditions of voyaging in Hawai‘i and the Pacific, from pre-European contact to the revival of voyaging arts in modern times.
2. Demonstrate knowledge of the voyages of Hōkūle‘a and other modern Pacific canoes and what has been learned from such voyages about traditional navigation, voyaging, and migration routes.
3. Demonstrate knowledge of the Pacific-wide cross-cultural exchanges that are taking place in the modern revival of Hawaiian voyaging.
4. Demonstrate knowledge of traditional Hawaiian and Polynesian concepts of the cosmos, space, direction, and time and how these concepts compare with Western concepts.
5. Demonstrate knowledge of non-instrument navigation.
6. Demonstrate knowledge of traditional concepts of wind and weather and non-instrument weather forecasting.
7. Demonstrate knowledge of voyaging canoe design and building materials, techniques, and protocols.
8. Demonstrate knowledge of provisioning for traditional and modern voyages.
9. Demonstrate knowledge of Hawaiian and Polynesian voyaging traditions and voyagers and the cultural perspectives, values, and world views to those of contemporary Western societies.
10. Critically examine and explain oral traditions and modern theories and facts about the discovery and settlement of Hawai‘i and other Pacific islands.
11. Demonstrate knowledge of Pacific geography, weather systems, and oceanic currents and conditions, as related to the discovery and settlement of the Pacific islands.
12. Demonstrate knowledge of the significance of voyaging in the revival of native Hawaiian culture and education in modern times.

HWST 282L Ho‘okele II: Hawaiian Navigation, Weather, Canoe Design & Sailing Lab (1) KCC AA/DH
3 hours lab per week

Corequisite(s): HWST 282. Recommended Preparation: HWST 107.

Comment: HWST 282L is repeatable up to 2 credits. Some ocean experience and experience on boats. Knowledge of one’s susceptibility to seasickness and ways of preventing or dealing with seasickness, as needed. Students will demonstrate basic swimming and will be provided personal flotation devices if unable to demonstrate basic swimming. Students should have the ability to jump onto the deck of a boat that is 1-2 feet below the pier level. Some heavy lifting (e.g. pulling up an anchor) may be required.
HWST 285 Lāʻau Lapaʻau: Hawaiian Medicinal Herbs (4) KCC AA/DH

3 hours lecture, 3 hours lab per week.
Prerequisite(s): HWST 100 or HWST 107.
Recommended Preparation: HAW 101.

Comment: HWST 285 may not be audited. Other equipment includes: A blender, chopping board, knife and containers are strongly suggested materials. Students are encouraged to have their own equipment, but sharing is acceptable.

HWST 285 is a study of the traditional practice of lāʻau lapaʻau or the use of traditional Hawaiian medicinal herbs. This course will introduce the student to the basic Hawaiian Medicinal plants, how to identify them by name, color, smell, taste and sight, and how to prepare them for application. Lāʻau Lapaʻau is a significant component to understanding the Hawaiian culture, and remains as a unique identifier of native Hawaiian culture.

Upon successful completion of HWST 285, the student should be able to:
1. Identify traditional plants used for practice of Hawaiian healing and their cultural significance.
2. Demonstrate a conceptual and working knowledge of these medicinal plants through hands on preparation and application.
3. Reconstruct through preparation process the traditional knowledge archaeology, the origins and significance of native healing practices.
4. Describe the native environment and the significance of proper management.
5. Illustrate the physical characteristics of these various plants.
6. Analyze critically the cultural impact and the residual effects of the Western system on the physical and spiritual world of the Hawaiian.

HEALTH

HLTH 110 Medical Terminology (2)

2 hours lecture per week.

Comment: Effective Fall 2019 HLTH 110 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 110 covers pronunciation, spelling, and definition of medical terms pertaining to all systems of the body and supplementary terms applicable to specialty areas of medicine and selected paramedical fields. Emphasis is on increasing professional vocabulary and proficiency in correct pronunciation and spelling of medical terms.

Upon successful completion of HLTH 110, the student should be able to:
1. Spell, define, and pronounce medical words correctly.
2. Identify and use correctly prefixes, suffixes, and roots of words.
3. Recognize and correctly use medical and drug terms and specialized terminology, and commonly used medical abbreviations and symbols.
4. Correctly pronounce and spell terms pertaining to the structure, function, disorders and diseases, also surgical, treatment, and diagnostic procedures of all systems of the human body.
5. Identify and differentiate spoken medical terms.

HLTH 118 Therapeutic Interpersonal Skills (3)

3 hours lecture per week.

Comment: Letter grade only. HLTH 118 may not be audited. HLTH 118 may not be taken credit/no credit. Students are required to participate in service learning.

Effective Fall 2019 HLTH 118 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 118 provides students with the opportunity to assess themselves, their values, and associated professional attitudes and behaviors. Characteristics of effective helpers, appropriate communication techniques, assertiveness skills, and problem-solving for ethical and cultural issues are examined. These concepts are applied in health care settings that involve individuals and groups who require intervention services.

Upon successful completion of HLTH 118, the student should be able to:
1. Demonstrate knowledge and appreciation of the role of sociocultural, socioeconomic, and diversity factors and lifestyle choices in contemporary society (e.g., principles of psychology, sociology, and abnormal psychology).
2. Articulate the ethical and practical considerations that affect the health and wellness needs of those who are experiencing or are at risk for social injustice, occupational deprivation, and disparity in the receipt of services.
3. Demonstrate knowledge of global social issues and prevailing health and welfare needs of populations with or at risk for disabilities and chronic health conditions.
4. Articulate the importance of balancing areas of occupation with the achievement of health and wellness for the clients.
5. Demonstrate an understanding of health literacy and the ability to educate and train the client, caregiver, and family and significant others to facilitate skills in areas of occupation as well as prevention, health maintenance, health promotion, and safety.
HLTH 120 Introduction to the Health Professions (1)
1 hour lecture per week
Comment: Effective Fall 2019 HLTH 120 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 120 introduces students to concepts of health and disease, health care systems, organizational structure and function of primary, tertiary, and community-based health facilities, health care ethics, and the health care team in individualized patient care.

Upon successful completion of HLTH 120, the student should be able to:
1. Identify and integrate use of electronic media to effectively communicate with various health care professions.
2. Explain the characteristics of community-based health care and describe the role of the health care team in providing patient care.
3. Explain the differences between health professions and describe examples of ethical concerns facing health care practitioners.
4. Identify, define, and relate requirements to study in selected program or occupation in order to describe the organizational structure of a hospital, health care clinic, or community-based agency.

HLTH 121 Health Care Career Shadowing (1)
A total of 45 hours observation and discussion
Prerequisite(s): A grade of “C” or higher in HLTH 120.
Comment: HLTH 121 may not be audited. HLTH 121 may only be taken credit/no credit. Effective Fall 2019 HLTH 121 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 121 is intended for the student who desires an in-depth opportunity to explore various health care careers and to decide which would be most appropriate to pursue.

Upon successful completion of HLTH 121, the student should be able to:
1. Describe five health care occupations in terms of responsibilities, role in patient care, interaction with at least two other types of health care providers, working conditions, educational requirements, licensure or certification required, and how they might or might not serve as career options.
2. Describe the one health care occupation the student is most interested in pursuing as a possible career option in terms of the student’s own interests, values, abilities, and circumstances.
3. Identify the gaps between personal skill levels in math and English and the levels required for the health care occupation of interest.
4. Identify steps to be taken to acquire the necessary education, skills, etc. required to meet the job requirements of the selected health care occupation.
5. Describe the basic requirements of the Health Insurance Portability and Accountability Act (HIPAA).

HLTH 125 Survey of Medical Terminology (1)
1 hour lecture per week
Comment: Effective Fall 2019 HLTH 125 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 125 builds on knowledge of prefixes, suffixes, and word roots to analyze and build medical terms. It includes definition, spelling, and pronunciation of selected medical words dealing with all human body systems as well as surgical and diagnostic procedures, and disease conditions. Commonly used medical abbreviations and pharmacological terms as well as plural endings are also covered.

Upon successful completion of HLTH 125, the student should be able to:
1. Define, give examples of, and use correctly the following word parts used in building and analyzing medical terms: prefixes, suffixes, word roots, and combining forms.
2. Correctly use plural endings for medical terms.
4. Define and give examples of terminology used for surgical and diagnostic procedures and pathology.
5. Build medical terms by correctly putting word parts together.
6. Analyze the components of medical words and derive the meaning of the words. State the meaning of common medical abbreviations and pharmacological terms.
7. State the meaning of common medical abbreviations and pharmacological terms.
Analyze and define terms dealing with various medical and dental specialties.

**HLTH 160 Study of Diseases (3)**

**3 hours lecture per week**

*Prerequisites*: A grade of “C” or higher in BIOL 120 or a grade of “C” or higher in BIOL 130 or a grade of “C” or higher in PHYL 141 and PHYL 142 or a grade of “C” or higher in both ZOOL 141 and ZOOL 142; and a grade of “C” or higher in HLTH 110 or a grade of “C” or higher in HLTH 125.

*Comment*: Letter grade only. HLTH 160 may not be audited. HLTH 160 may not be taken credit/no credit. Effective Fall 2019 HLTH 160 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 160 covers basic concepts and characteristics of disease processes; etiology, methods of control, and development of selected diseases from each major body system.

Upon successful completion of HLTH 160, the student should be able to:

1. Identify and discuss basic concepts, principles, and characteristics of disease processes.
2. Recognize and apply terminology pertaining to injuries and disease processes.
3. Identify and discuss the etiology of selected diseases from each of the major body systems.
4. Identify and discuss methods of external control and treatment of known diseases.

**HLTH 201 Transfers, Positioning, Mobility, and Assistive Devices (1.5)**

*4.5 hours lecture/lab per week for 10 weeks*

*Comment*: Letter grade only. HLTH 201 may not be audited. HLTH 201 may not be taken credit/no credit. Effective Fall 2019 HLTH 201 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 201 provides the basic standard patient care skills and training in the use of wheelchairs, ambulatory aids, selected hospital equipment, transfers, and environmental assessment.

Upon successful completion of HLTH 201, the student should be able to:

1. Identify and assess architectural barriers to mobility.
2. Communicate data and information from PT interventions in written documentation with the patient, family, significant other, PT, health care delivery personnel and others in an effective, appropriate and capable manner.
3. Identify individual and cultural differences and respond appropriately in all aspects of physical therapy services.
4. Present conduct and practice standards that reflect the APTA Guide to Physical Therapy Practice and are legal, ethical, and safe, a commitment to the profession of physical therapy and meet the expectations of consumers receiving health care services.
5. Implement the plan of care developed by the PT to achieve the short and long-term goals of treatment and intended outcomes.
6. Implement safe, effective and efficient competencies in selected components of PT interventions identified in the plan of care: Activities of daily living, assistive/adaptive devices, transfer skills - bed, chairs, automobile, bathroom, body mechanics, gait and locomotion training, wheelchair management skills, lift skills, balance and coordination with and without assistive devices.
7. Apply problem-solving knowledge to address symptoms aggravated by activities such as respiratory and circulatory changes.
9. Identify the individual’s or caregiver’s ability to care for wheelchair, assistive, adaptive, and supportive devices in a safe manner.
10. Assess skin condition before, during and after removal of external support devices such as wheelchair fitting, assistive and supportive devices.
11. Explain and implement progression or status change with ambulation, mobility and wheelchair management status and balance.
12. Demonstrate activities by using comparison and contrasting situations, positions and postures that aggravate or relieve pain or skin sensation.
13. Communicate architectural barriers in the home or community with the patient, family, significant other, PT, health care providers and others.
14. Assess and communicate contraindications, precautions, and interventions within the plan of care in response to the patient’s clinical indications to the supervising PT.
15. Report and communicate contraindications, precautions and changes of any PT intervention to the supervising PT.
16. Explain when an intervention is outside the scope of PTA practice.
HLTH 203 Therapeutic Exercise (3)
6 hours lecture/lab per week
Prerequisite(s): A grade of “C” or higher in HLTH 290L. Effective Fall 2019 HLTH 203 may not be audited. HLTH 203 may not be taken credit/no credit.
Comment: Letter grade only. HLTH 203 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HLTH 206 Massage (1.5)
4 hours lecture/lab per week for 12 weeks
Prerequisite(s): A grade of “C” or higher in HLTH 290L. Effective Fall 2019 HLTH 206 may not be audited. HLTH 206 may not be taken credit/no credit.
Comment: Letter grade only. HLTH 206 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.
processes and alterations of functions in body systems in all age groups.

HLTH 252 is a clinical case study approach to the study of underlying principles, manifestations, and clinical implications of disease processes and alterations of functions in body systems in all age groups.
Upon successful completion of HLTH 280, the student should be able to:

1. **Describe:**
   a. Structural and functional reactions of cells and tissues to injurious agents;
   b. Neurology dysfunction and alterations of neurologic function in adults and children;
   c. Alterations of hematologic functions in adults and children;
   d. Clinical implications of respiratory diseases in adults and children; and
   e. Disorders of the musculoskeletal system in adults and children.

2. Describe genetic and environmental factors causing disease.
3. Explain the body’s normal and altered responses to disease processes.
4. Identify disorders of organs and systems in clinical case studies.
5. Compare clinical manifestations and treatment of cancer in children and adults to clinical cases.
7. Identify specific disorders and their etiologic agents and effects.
9. Explain various disorders of the urinary system in terms of structure and function.
10. Identify alterations of digestive function in adults and children and compare them to clinical cases.
11. Describe alterations and disorders of the integument in adults and children.

**HLTH 270 Aging and Rehabilitation (1)**
1 hour lecture per week

Prerequisite(s): A grade of “C” or higher or concurrent enrollment in BIOL 130 or a grade of “C” or higher in ZOOL 141 or a grade of “C” or higher or concurrent enrollment in an equivalent course or consent of Program Director.

Comment: Letter grade only. HLTH 270 may not be audited. HLTH 270 may not be taken credit/no credit. A service-learning project is highly recommended in this course. Effective Fall 2019 HLTH 270 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

Upon successful completion of HLTH 270, the student should be able to:

1. Explain introductory concepts of geriatrics and gerontology.
2. Identify pathological changes with aging and the caregiver role in this process.
3. Define psychosocial and reimbursement issues facing the elderly population.
4. State and recognize ethical and professional conduct in health care.
5. Discuss issues in health care and rehabilitation associated with clinical implications of respiratory diseases in adults and children; and disorders of the musculoskeletal system in adults and children.
6. Identify individual and cultural differences and respond appropriately in all aspects of physical therapy services.
7. Describe genetic and environmental factors causing disease.
8. Identify alterations of digestive function in adults and children and compare them to clinical cases.
9. Describe alterations and disorders of the integument in adults and children.
11. Explain various disorders of the urinary system in terms of structure and function.
12. Explain the body’s normal and altered responses to disease processes.
15. Identify disorders of organs and systems in clinical case studies.

**HLTH 280 Disease and Disability for Rehabilitation (3)**

3 hours lecture per week

Prerequisite(s): A grade of “C” or higher in BIOL 130 or a grade of “C” or higher in PHYL 141 or a grade of “C” or higher in ZOOL 141 or a grade of “C” or higher or concurrent enrollment in an equivalent course or a grade of “C” or higher in a higher-level human anatomy and physiology course.

Recommended Preparation: BIOL 130 or PHYL 141 or ZOOL 141.

Comment: Letter grade only. HLTH 280 may not be audited. HLTH 280 may not be taken credit/no credit. Effective Fall 2019 HLTH 280 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

Upon successful completion of HLTH 280, the student should be able to:

1. Describe:
   a. Structural and functional reactions of cells and tissues to injurious agents;
   b. Neurology dysfunction and alterations of neurologic function in adults and children;
   c. Alterations of hematologic functions in adults and children;
   d. Clinical implications of respiratory diseases in adults and children; and
   e. Disorders of the musculoskeletal system in adults and children.

2. Describe genetic and environmental factors causing disease.
3. Explain the body’s normal and altered responses to disease processes.
4. Identify disorders of organs and systems in clinical case studies.
5. Compare clinical manifestations and treatment of cancer in children and adults to clinical cases.
7. Identify specific disorders and their etiologic agents and effects.
9. Explain various disorders of the urinary system in terms of structure and function.
10. Identify alterations of digestive function in adults and children and compare them to clinical cases.
11. Describe alterations and disorders of the integument in adults and children.
Upon successful completion of HLTH 290, the student should be able to:

- Demonstrate fluency in kinesiology and rehabilitation terminology and layman’s terms.

**HLTH 290 Kinesiology (2)**

2 hours lecture per week

**Prerequisite(s):** A grade of “C” or higher in BIOL 130 or a grade of “C” or higher in PHYS 141 or a grade of “C” or higher in ZOOL 141 or a grade of “C” or higher in a higher-level human anatomy and physiology course.

**Corequisite(s):** HLTH 290L.

**Recommended Preparation:** PHYS 100 or PHYS 122.

**Comment:** Letter grade only. HLTH 290 may not be audited. HLTH 290 may not be taken credit/no credit. Effective Fall 2019 HLTH 290 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

**HLTH 290L Kinesiology Lab (1)**

4 hours lab per week

**Prerequisite(s):** A grade of “C” or higher in BIOL 130 or a grade of “C” or higher in PHYS 141 or a grade of “C” or higher in ZOOL 141 or a grade of “C” or higher in a higher-level human anatomy and physiology laboratory course.

**Corequisite(s):** HLTH 290.

**Recommended Preparation:** PHYS 100 or PHYS 122.

**Comment:** Letter grade only. HLTH 290L may not be audited. HLTH 290L may not be taken credit/no credit. Effective Fall 2019 HLTH 290L has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.
1. Identify and locate the proximal and distal attachments, peripheral innervations, musculoskeletal actions, and lever class for the skeletal muscles on the human body included in this course according to fiber arrangement, and relate it to its function.

2. Identify and locate the joints of the body according to structure and explain the relationship between the structure and capacity for movement contributing to joint ROM and stability.

3. Describe and perform movements in the extremities and trunk in terms of joint structure, axes of motion, muscle contractions and interactions such as the length-tension relationship, concentric, eccentric, static, isometric, isotonic, and isokinetic.

4. Identify and demonstrate muscle action as prime mover, agonist, antagonist, synergist and stabilizer, as it relates to the concepts and principles of body mechanics, postural alignment, and the purpose of assessment.

5. Distinguish the presence or absence of muscle mass and tone.

6. Observe and palpate the musculoskeletal anatomy presented in lab such as bony prominences, muscles, tendons, ligaments, associated postures and gait variations.

7. Construct mechanical principles in terms of human movement including normal gait patterns and vicarious motions to comprehend biomechanical response motion to pathology.

8. Demonstrate fluency in kinesiology and rehabilitation terminology and layman’s terms.

HISTORY

HIST 151 World History to 1500 (3) KCC AA/FGA and KCC AS/AH
3 hours lecture per week

is a global and historical survey focusing on human societies and cross-cultural interactions to 1500 C.E. It examines the events, personalities, institutions, and ideas that shaped the major world societies.

1. Explain the role and importance of notable individuals in history.
2. Interpret a significant global process with respect to social, religious, political, economic, and/or technological forces among the various civilizations.
3. Compare the ethics and traditions of peoples in history in relation to one's own life and/or culture.

HIST 152 World History since 1500 (3) KCC AA/FGB and KCC AS/AH
3 hours lecture per week

is a global and historical survey focusing on human societies and cross-cultural interactions since 1500 C.E. It examines the events, personalities, institutions, and ideas that shaped the modern world.

1. Explain the role and importance of notable individuals in history.
2. Interpret a significant global process with respect to social, religious, political, economic, and/or technological forces among the various civilizations.
3. Compare the ethics and traditions of peoples in history in relation to one's own life and/or culture.

HIST 231 Modern European Civilization I (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in ENG 100 or a grade of "C" or higher in ESL 100.

HIST 231 is a survey of the political evolution and major economic, social and cultural development of European States, 1500-1800.

Upon successful completion of HIST 231, the student should be able to:
1. Identify and explain the role of important individuals, events and concepts in modern European history.
2. Examine cause and effect relationships in modern European history, while demonstrating a sense of chronology.
3. Describe and analyze the ideologies and processes that shaped modern Europe (e.g capitalism and industrialization; liberalism and democracy; nationalism and nation states; cross-cultural interactions; imperialism and colonialism; fascism; militarism and warfare).
4. Analyze and integrate primary source materials into a more developed historical understanding.
HIST 232 Modern European Civilization II (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in ENG 100 or a grade of "C" or higher in ESL 100.
Recommended Preparation: HIST 152.

HIST 232 is a continuation of HIST 231. It is a survey of the political evolution and major economic, social and cultural development of European states from Napoleon (1800s) to the present.

Upon successful completion of HIST 232, the student should be able to:
1. Identify and explain the role of important individuals, events and concepts in modern European history.
2. Examine cause and effect relationships in modern European history, while demonstrating a sense of chronology.
3. Describe and analyze the ideologies and processes that shaped modern Europe (e.g. capitalism and industrialization; liberalism and democracy; nationalism and nation states; cross-cultural interactions; imperialism and colonialism; fascism; militarism and warfare).
4. Analyze and integrate primary source materials into a more developed historical understanding.

HIST 241 Civilizations of Asia I (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week
Prerequisite(s): ENG 100 or ESL 100.
Recommended Preparation: HIST 151.

HIST 241 is a survey of the major civilizations of East Asia, South Asia, and Southeast Asia from prehistoric times to 1500 AD.

Upon successful completion of HIST 241, the student should be able to:
1. Analyze the role and importance of individuals in Asian history.
2. Describe historical processes and their significance in Asia (e.g. agriculture, unification, empire building, statecraft, philosophy, art, religion, etc.).
3. Analyze cross-cultural interactions among the various people of Asia and describe the impact of such encounters.
4. Examine one's own values through engaging ethical questions and issues in the context of Asian history.

HIST 242 Civilizations of Asia II (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week
Prerequisite(s): ENG 100 or ESL 100.
Recommended Preparation: HIST 152.

HIST 242 is a continuation of HIST 241. It surveys South, Southeast, and East Asian civilizations from 1500 to the present.

Upon successful completion of HIST 242, the student should be able to:
1. Analyze the role and importance of individuals in modern Asian history.
2. Describe historical processes and their significance in Asia (e.g. technological breakthroughs, foreign encounters, industrialization, imperialism and colonialism, socialism, capitalism, environmentalism, etc.).
3. Analyze the impact of European and American encounters with the peoples and cultures of Asia, evaluating the reactions, responses, results, and affect on Asian national identities as well as Asia's place in the global community.
4. Examine one's own values through engaging ethical questions and issues in the context of modern Asian history.
5. Identify and evaluate the major challenges Asia faces in the 21st century.

HIST 281 Introduction to American History I (3) KCC AA/DH and KCC AS/AH Fall
3 hours lecture per week
Prerequisite(s): Qualification for ENG 100 or qualification for ESL 100.
Comment: HIST 281 is offered in the fall semester only.
HIST 282 Introduction to US History II: US History since 1865 (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week
Prerequisite(s): Qualification for ENG 100 or qualification for ESL 100.

HIST 282 is a survey of American history from Reconstruction to the present, covering the rise of the United States as an economic power up through its role as the world hegemon.

Upon successful completion of HIST 282, the student should be able to:
1. Discuss the development and beliefs of American political, economic, social, and cultural movements.
2. Analyze the industrial revolution in America and be able to identify the cultural, technological, social, and political changes that accompanied this major shift in the American mode of production.
3. Examine the emergence of the United States first as an imperial power and later as one of the world's superpowers and explain U.S. foreign policy goals as they evolved in the 20th century.
4. Identify the role of the U.S. in the post-cold war world as a means of demonstrating an understanding of events in the contemporary world.
5. Elaborate on the development and value of diversity in American society describing the contributions of a variety of ethnic and racial groups that have served to shape and expand the worldview of the American people.

HIST 284 History of the Hawaiian Islands (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in ENG 100 or a grade of "C" or higher in ESL 100.
Recommended Preparation: HIST 152 or HAW 101 or HWST 100 or HWST 107.

HIST 284 will survey the origins and evolution of ancient Hawaiian society and culture, the changes during the monarchial period, and the transformation of Hawai‘i in the 20th century.

Upon successful completion of HIST 284, the student should be able to:
1. Analyze the role and importance of individuals in Hawaiian History.
2. Analyze past events in Hawaiian history by using multiple sources, understanding historical context, and evaluating impact over time.
3. Describe the social, religious, political, and economic changes in Hawai‘i from the late 18th century through the 20th century.
4. Trace the development of Hawai‘i's multi-cultural society and explain its enduring influences in our modern times.
5. Examine the values and cultural traditions of Native Hawaiians in relation to one's own values and culture.

HIST 288 History of the Pacific Islands (3) KCC AA/DH and KCC AS/AH
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in ENG 100 or a grade of "C" or higher in ESL 100.
Recommended Preparation: HIST 151 or HIST 152 or PACS 108.

HIST 288 is a survey introduction of Pacific Islands history that traces events from first settlement to modern times.

Upon successful completion of HIST 288, the student should be able to:
1. Analyze the role and importance of individuals in Pacific Islands history.
2. Analyze past events in Pacific Islands history by using multiple sources, understanding historical context, and evaluating impact over time.
3. Compare the social, religious, political, and economic changes of various Pacific Islands from first contact through modern times.
4. Examine the values and cultural traditions of Pacific islanders in relation to one's own values and culture.

HONORS

Honors sections of courses (3)
3 hours lecture per week, identical to the regular courses
Prerequisite(s): Acceptance into the Honors program.

class section will have the word “Honors” before the course title. One or more honors section courses may be offered each semester.
Upon successful completion of Host 100, the student should be able to:

1. Create a career path to meet individual goals.
2. Apply job search strategies and techniques applicable to the hospitality and tourism industry and other related pathways.
3. Develop strategies that enhance guest satisfaction, exceed expectations, win loyalty and address service recovery in the hospitality and tourism industry.
4. Demonstrate professionalism, business etiquette, ethical and value-based behaviors.

Upon successful completion of Host 101, the student should be able to:

1. Distinguish the organizations, operational characteristics and interrelationships of the sectors of the hospitality and tourism industry.
industry (travel/tourism, lodging, food/beverage, recreation, and events).
2. Explain historical events, current trends and sustainable practices (social, economic, cultural, and/or environment) in the hospitality and tourism industry.
3. Identify the career opportunities, job qualifications, and benefits provided by the various sectors of the hospitality and tourism industry.
   - Differentiate the products, services, and systems that influence leisure and business travel to a destination.

HOST 150 Housekeeping Operations (3)
3 hours lecture per week
Recommended Preparation: HOST 101.
Comment: Effective Fall 2019 HOST 150 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 150 studies the professional management of housekeeping operations including practical applications and management skills required to ensure quality service and effective performance.

Upon successful completion of HOST 150, the student should be able to:
1. Identify and critique the responsibilities and functions of housekeeping operations and analyze the importance of inter/intra departmental relationships and Hawaiian/host culture values.
2. Develop and demonstrate safe, effective, efficient and sustainable practices related to various housekeeping tasks and operational responsibilities.
3. Analyze the management functions of housekeeping operations including planning, organizing, staffing, controlling and evaluating techniques required to ensure quality service, efficient productivity and effective performance.

HOST 154 Food and Beverage Operations (3)
3 hours lecture per week
Recommended Preparation: HOST 101.
Comment: Effective Fall 2019 HOST 154 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 154 introduces the basic principles of marketing, menu planning, service styles, nutrition, sanitation and safety, purchasing, and control systems as they apply to food and beverage management in an operational setting. Provides practical applications for effectively managing resources for food and beverage industry operations.

Upon successful completion of HOST 154, the student should be able to:
1. Recognize the responsibilities involved in successfully managing and marketing various food and beverage operations.
2. Evaluate effective practices and trends as they relate to nutrition, menu planning, purchasing, pricing, preparation, and production.
3. Demonstrate applicable service, sanitation, and safety skills to improve employee performance and enhance guest satisfaction.
   - Determine the components involved in the financial management of food and beverage operations to promote fiscal success.

HOST 156 Front Office Management (4)
3 hours lecture, 2 hours lecture/lab per week
Comment: Effective Fall 2019 HOST 156 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 156 is the study of the philosophy, theory, and current operating procedures of a hotel front office. Concentrates on the human relation skills necessary for effective guest and employee relations and the technical skills necessary to operate a manual, mechanical, or computerized front office operation. Focuses on managerial analysis of processes, outcomes and efficiencies.

Upon successful completion of HOST 156, the student should be able to:
1. Distinguish and connect the various classifications of lodging operations to work effectively in a front office environment.
2. Perform each of the major front office functions following industry regulations to facilitate transition into a lodging front office environment.
3. Interpret statistical information that affects lodging operations.
4. Identify the personal attitudes, characteristics, and work practices essential in providing excellence in front office guest service.
5. Demonstrate effective guest service and complaint handling techniques.
6. Demonstrate computer proficiency in reservations, check-in, posting, and check-out functions of the Front Office.
7. Demonstrate accurate application of guest accounting procedures.
8. Produce and analyze management reports.
9. Analyze managerial responses to a variety of guest situations.
10. Perform a managerial review and audit of operational functions.
HOST 256 Hospitality Accounting (3)
3 hours lecture per week
Comment: Effective Fall 2019 HOST 256 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 256 Hospitality Accounting (3)
HOST 256 is an introduction to basic accounting and finance principles and the budgeting function as applied to hospitality operations. This course includes accounting for expenses, purchasing, inventory, sales, and the preparation and analysis of financial statements and management reports.

Upon successful completion of HOST 256, the student should be able to:
1. Define basic accounting principles, terminology and concepts.
2. Analyze the various forms of business formation.
3. Apply the basic financial principles, terms and concepts to hospitality.
4. Interpret the culture and economic impact of the tourism industry.
5. Provide interesting and accurate information about the language, history, culture and sites of Hawai‘i.
6. Demonstrate the ability to conduct walking and bus tours.
7. Discuss the importance of the sustainability of culture to a destination and the tourism industry.
8. Create, market and sell a guided tour.
9. Discuss the operational aspects of a successful tour company.
10. Discuss the factors that motivate travelers to visit major travel destinations worldwide, and be able to describe their patterns, currency, lodging options and history of many counties.
11. Analyze the economic impact of the tourism industry to many worldwide destinations.
12. Interpret the cultural patterns unique to Hawai‘i and other major destinations.
13. Analyze the importance of the various components of a tour to assure that guest expectations and reservation arrangements are met.
14. Critique how the United States Airline Industry compares to the International Air Transportation Association regulations.
15. Define and create types of air journeys (one-way, round trip, circle trip, and open jaw) and their airfare basis codes and fare rules, including international fares based on the neutral units of construction principles.
16. Review the mandatory fields of the Passenger Name Records (PNR). 

HOST 171 Selling Destinations (3)
3 hours lecture per week
HOST 171 Selling Destinations (3) is designed to prepare students with the knowledge and skills needed to create domestic and international air itineraries. Students will build Passenger Name Records (PNR), price itineraries, interpret tariffs, and construct airline reservations using the mandatory fields of the Passenger Name Records (PNR).

Upon successful completion of HOST 171, the student should be able to:
1. Define and create types of air journeys (one-way, round trip, circle trip, and open jaw) and their airfare basis codes and fare rules, including international fares based on the neutral units of construction principles.
2. Review the mandatory fields of the Passenger Name Records (PNR).
4. Critique how the United States Airline Industry compares to the International Air Transportation Association regulations.
5. Identify and construct airline reservations using the mandatory fields of the Passenger Name Records (PNR).
6. Demonstrate the ability to conduct walking and bus tours.
7. Provide interesting and accurate information about the language, history, culture and sites of Hawai‘i.
8. Discuss the importance of the sustainability of culture to a destination and the tourism industry.
9. Discuss the operational aspects of a successful tour company.
10. Discuss the factors that motivate travelers to visit major travel destinations worldwide, and be able to describe their patterns, currency, lodging options and history of many counties.
11. Analyze the economic impact of the tourism industry to many worldwide destinations.
12. Interpret the cultural patterns unique to Hawai‘i and other major destinations.
13. Analyze the importance of the various components of a tour to assure that guest expectations and reservation arrangements are met.
14. Critique how the United States Airline Industry compares to the International Air Transportation Association regulations.
HOST 259 Tourism Marketing (4)
3 hours lecture, 2 hours lecture/lab per week
Prerequisite(s): A grade of "C" or higher in HOST 101.
Recommended Preparation: A grade of "C" or higher in four Hospitality major courses.
Comment: Effective Fall 2019 HOST 259 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 259 is a study of modern marketing techniques and concepts for the tourism industry that focuses on the unique challenges inherent in the production and marketing of intangible products and services. Tourism Marketing will explore each phase of a marketing plan to involve students in the application of topics such as: macro-environmental trends, consumer behavior, brand development, pricing approaches, and promotional strategies.

Upon successful completion of HOST 259, the student should be able to:
1. Explain what marketing is and why marketing should be viewed as a philosophy not just a business function.
2. Distinguish the uniqueness and challenges of producing service as a product within the hospitality and tourism industry.
3. Select relevant trends in the macro-environments that are influencing the strategic directions of organizations within hospitality and tourism and present on how they are reacting to the trends.
4. Distinguish the major characteristics affecting consumer behavior, and the specific cultural, social, personal, and psychological factors that influence consumers in promotional initiatives.
5. Distinguish the major group markets that comprise the hospitality and tourism industry and assess the positive attributes of each market.
6. Differentiate the various strategies used to segment markets; select specific markets based on the appraisal of the appropriate targeting strategies; and apply the best positioning strategy that would provide a competitive advantage.
7. Separate the various product levels (core, facilitating, supporting, and augmented) that combine to deliver the holistic experience of the product to the guest.
8. Detect the key aspects and conditions that define successful hospitality and tourism brands.
9. Calculate the price elasticity of demand and assess the level of quality and brand strength associated with the various services and products in the hospitality and tourism industry.
10. Calculate pricing for services and products in hospitality and tourism based on generally accepted industry pricing approaches.
11. Illustrate examples of advertising and assess effectiveness.
12. Illustrate examples of public relations activities including sponsorships, special events, corporate communications, and lobbying, and assess effectiveness as it relates to brand identity.
13. Illustrate examples of e-marketing and assess effectiveness as it relates to brand identity.

HOST 261 Events Management (3)
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in HOST 101.
Recommended Preparation: Qualification for ENG 100 or qualification for ESL 100.
Comment: Effective Fall 2019 HOST 261 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 261 prepares students to plan and administer successful functions, special events, meetings and conventions. Students explore topics such as exhibitions, convention programming, festivals, venue selection, social events, catering needs, sustainability, technology, careers and staffing, event marketing, design and decor, and current trends.

Upon successful completion of HOST 261, the student should be able to:
1. Examine the various segments of the industry including meetings, conventions, incentives, exhibitions, festivals and events.
2. Evaluate sustainable practices in the events management industry.
3. Design a special events plan.
4. Assess various components needed to execute a successful event.

HOST 265 Tourism Development and Management (3)
the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Science degree in Hospitality and Tourism program

Prerequisite(s): A grade of "C" or higher in HOST 100 or qualification for ESL 100.

Recommended Preparation: Qualification for ENG 100 or qualification for ESL 100.

Comment: Effective Fall 2019 HOST 280 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 265 exposes students to planning, developing, implementing and managing tourism within a destination. This course presents tourism development as a process with its own organizational structures and its own responses to the economic cycle of supply and demand. Students study various destinations in order to analyze and identify the components of successful tourism programs.

Upon successful completion of HOST 265, the student should be able to:
1. Compare and contrast the costs and benefits of tourism, economically, environmentally, and socially/culturally in context of the various stakeholders (residents, visitors, owners/operators and government) of tourism.
2. Assess the multiplier factor and economic impact of tourism for various destinations.
3. Distinguish the various factors that contribute to the motivation and propensity of individuals to travel.
4. Describe the various associations and organizations that comprise the development and management of tourism internationally, nationally, regionally, and locally and explain the mission, goals and activities of each.
5. Distinguish the key aspects that define the structure, elements and processes of developing policies that guide tourism.
6. Using a regression formula, and applying the appropriate factors, assess the strength of the correlation of the dependent variables to forecast demand for travel.
7. Propose the principles, components and approaches that go into the development of resorts.
8. Distinguish the concepts and principles of sustainability (economic, environmental, and social/cultural) and appraise the best practices of destinations, resorts, and tourism operations.

HOST 270 Tourism Security and Safety (3)
3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in HOST 101.

Comment: Effective Fall 2019 HOST 270 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

Upon successful completion of HOST 270, the student should be able to:
1. Relate Hawaiian values to values in society in general and the travel and hospitality industry in particular, with a special focus on strategies for effectively managing travel risks and safety. Students will learn about all aspects of security and safety in tourism, including the management of property protection, disaster management, and the protection of both residents and guests.
2. Identify methods for the protection of data and guest information.
3. Explain current issues and trends related to cybercrimes and identity theft and its impact on tourism. Students will learn about the legal responsibilities of destinations, resorts, and tourism operations.
4. Discuss the legal, social, and economic significance of tourism and the detrimental impact terrorism or a disaster can have on a destination.
5. Propose the principles, components and approaches that go into the development of best practices of destinations, resorts, and tourism operations.
6. Propose the principles, components and approaches that go into the development of destinations, resorts, and tourism operations.
7. Distinguish the concepts and principles of sustainability (economic, environmental, and social) and appraise the best practices of destinations, resorts, and tourism operations.
8. Demonstrate decision-making skills by applying key management concepts and principles.
9. Explain the social and economic significance of tourism and the detrimental impact terrorism or a disaster can have on a destination.
10. Using a regression formula, and applying the appropriate factors, assess the strength of the correlation of the dependent variables to forecast demand for travel.
11. Propose the principles, components and approaches that go into the development of destinations, resorts, and tourism operations.

HOST 280 Hospitality Management (3)
3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in HOST 101 or a grade of "C" or higher in CULN 111.

Recommended Preparation: Qualification for ENG 100 or qualification for ESL 100.

Comment: Effective Fall 2019 HOST 280 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 280 examines the key principles and processes of management in the hospitality industry that are essential for organizational effectiveness. Focuses on leadership skill building, decision-making processes, and human relations management.

Upon successful completion of HOST 280, the student should be able to:
1. Apply leadership skills that impact hospitality organizational effectiveness.
2. Demonstrate decision-making skills by applying key management concepts and principles.
3. Relate Hawaiian values to value-centered management.

HOST 293 Hospitality and Tourism Internship (3)
2 hours seminar, 15 hours fieldwork per week (A total of 225 hours internship per semester)

Prerequisite(s): A grade of "C" or higher in HOST 100 or a grade of "C" or higher in CULN 111; and acceptance into the Associate in Science degree in Hospitality and Tourism program or acceptance into the Associate in Science degree in Culinary Arts program; and consent of the Department.

Comment: Effective Fall 2019 HOST 293 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.
HOST 293 is a supervised field experience that is related to the student's major or career goals. The experience will enable the student to apply knowledge and skills learned in coursework to the work environment.

Upon successful completion of HOST 293, the student should be able to:
1. Apply job readiness skills to obtain and complete an internship in the hospitality industry.
2. Perform duties at the internship site applying industry standards and skills, and classroom knowledge.
3. Analyze and propose solutions for improvement of the technical and human skills, work habits, inter-relationships, operational measures of success, quality assurance methods and sustainability practices in the workplace.
4. Evaluate one's career goals, accomplishments, achievements, and activities during the academic journey.

HOST 320 Vacation and Condominium Hospitality Operations (3)
3 hours lecture per week
Prerequisite(s): Satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Hospitality Operations Management program or satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Travel and Tourism Operations Management program or consent of instructor.

HOST 320 is the study of vacation ownership in timeshare, condominium, fractional, private residence clubs, destination clubs and second homes. The course will explore the growth of vacation and condominium hospitality operations with an emphasis on the unique aspects of project financing, marketing, real estate contracts, exchange programs, and resort operations.

Upon successful completion of HOST 320, the student should be able to:
1. Describe the history and growth of the vacation ownership sector of the hospitality industry.
2. Identify the unique services, amenities, and operational requirements of vacation ownership.
3. Compare the return on investment structure of vacation ownership from the perspective of a developer in contrast to the development of a traditional hotel.
4. Compare the operational financial accounting of vacation ownership from the perspective of an operator in contrast to the operation of a traditional hotel.
5. Assess the advantages of vacation ownership from the perspective of the guest/owner.
6. Develop a complete marketing plan for a timeshare operation.
7. Explain the financing, contract and legal considerations of the real estate purchase involved in vacation ownership.
8. Summarize the procedures, policies and legal principles of working with owner associations and boards.
9. Identify the unique services, amenities and operational requirements of residential condominium operations.

HOST 330 Sustainable Hospitality Facility Design and Operations (3)
3 hours lecture per week
Prerequisite(s): Satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Hospitality Operations Management program or satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Travel and Tourism Operations Management program or consent of instructor.

HOST 330 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 330 is the study of project financing, marketing, real estate contracts, exchange programs, and resort operations. The course will explore the growth of vacation and condominium hospitality operations with an emphasis on the unique aspects of project financing, marketing, real estate contracts, exchange programs, and resort operations.

Upon successful completion of HOST 330, the student should be able to:
1. Compare the return on investment structure of vacation ownership from the perspective of a developer in contrast to the development of a traditional hotel.
2. Compare the operational financial accounting of vacation ownership from the perspective of an operator in contrast to the operation of a traditional hotel.
3. Assess the advantages of vacation ownership from the perspective of the guest/owner.
4. Develop a complete marketing plan for a timeshare operation.
5. Explain the financing, contract and legal considerations of the real estate purchase involved in vacation ownership.
6. Summarize the procedures, policies and legal principles of working with owner associations and boards.
7. Identify the unique services, amenities and operational requirements of residential condominium operations.

HOST 340 Lodging Industry Analytics and Revenue Management (3)
3 hours lecture per week
Prerequisite(s): Satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Hospitality Operations Management program or satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Travel and Tourism Operations Management program or consent of instructor.

HOST 340 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

The course will explore the growth of vacation and condominium hospitality operations with an emphasis on the unique aspects of project financing, marketing, real estate contracts, exchange programs, and resort operations.
HOST 350 Strategic Hospitality Leadership (3)
3 hours lecture per week
Prerequisite(s): Satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Hospitality Operations Management program or satisfactory completion of the Associate in Science degree in Hospitality and Tourism with a concentration in Travel and Tourism Operations Management program or consent of instructor.
Comment: Effective Fall 2019 HOST 350 has been approved for use as an elective for the Associate in Arts degree in Liberal Arts and the various AA Liberal Arts concentrations, as well as the Associate in Arts degree in Hawaiian Studies.

HOST 350 is a study of the rapidly changing and dynamic hospitality industry where leaders need to be informed and ready to react to macro trends such as labor availability, evolutionary technologies, economic volatilities, terrorism, political stability, and globalization. Major contemporary leadership approaches such as strategy selection, brand positioning, business development, values based leadership, and the strategic planning process will be examined with an emphasis on case examples of best practices of leading hospitality organizations.

Upon successful completion of HOST 350, the student should be able to:
1. Describe the evolution of the significant leadership theories and be able to select the appropriate approaches for the hospitality industry.
2. Identify the macro-environmental forces that have had, and will continue to have, an impact on the hospitality industry in the 21st century.
3. Analyze the key strategies and techniques and define their application towards successful business expansion in the hospitality industry.
4. Demonstrate the relationship between financial strategy selection and return on investment.
5. Evaluate the relationship of brand and positioning strategies to organizational success.
6. Discuss the strategic marketing leadership process upon which hospitality approaches are based on.
7. Distinguish best practices of hospitality organizations that have successfully sustained strategies of superior guest service.
8. Appraise contemporary and innovative human resources leadership practices and philosophies prevalent in the hospitality industry today.
9. Explain the driving forces behind the ever-increasing demand for technological applications in the hospitality industry.
10. Illustrate successful strategies to manage crisis situations and mitigate risk in hospitality organizations.
11. Compose a strategic plan synthesizing the best practices utilized by leaders of successful hospitality organizations.

HUMAN DEVELOPMENT & FAMILY STUDIES

HDFS 230 Human Development (3)
3 hours lecture per week
Prerequisite(s): Qualification for ENG 100 or qualification for ESL 100; and qualification for MATH 82.
Comment: Human Development and Family Studies (HDFS) 230 was formerly known as Family Resources (FAMR) 230.
HDFS 230 examines the lifespan from conception to death emphasizing the interrelationships of biological, cognitive and psychosocial development in the context of a systems framework.

Upon successful completion of HDFS 230, the student should be able to:
1. Explain the interrelated aspects of biosocial, cognitive, and psychosocial development across the lifespan.
2. Apply human development theories, concepts, and research to personal, academic, occupational, and community experiences.
3. Compare and contrast fundamental theories of human development and behavior.
4. Synthesize and convey ideas, utilizing critical thought and reflection clearly in oral/sign and written communication.
5. Investigate the diversity of human development from local, regional, and global perspectives.

HUMANITIES

HUM 210 Managing Yourself and Leading Others: Leadership Development (3)
3 hours seminar per week
Prerequisite(s): ENG 100 with a grade of "C" or higher or ESL 100 with a grade of "C" or higher.
Recommended Preparation: HIST 151 and HIST 152.

HUM 269 (Alpha) Study Abroad (Designated Region, Variable Credit) (1-6) KCC AA/DH and KCC AS/AH Summer
Variable numbers of hours lecture and lecture/lab per week
Prerequisite(s): Consent of instructor.
Recommended Preparation: One or more semester course(s) in the language, history or culture of the designated country or region.
Comment: HUM 269 is offered in the Summer semester only. Instructor approval is required.

HUM 269ES Study Abroad (Spain) (3) KCC AA/DH and KCC AS/AH Summer
7.5 hours lecture, 7.5 hours lecture/lab per week for 4 weeks
Prerequisite(s): Consent of instructor.
Corequisite(s): Enrollment in the Study Abroad Program via the institute, ACADEMIA MESTER.
Recommended Preparation: One or more semester course(s) in the language, history or culture of Spain.
Comment: Instructor approval is required for registration in HUM 269ES.
HUM 269FC (FC) Study Abroad (China) (1-6)
Variable numbers of hours lecture/lab per week.
Prerequisite(s): Consent of instructor.
Recommended Preparation: One or more semester course(s) in the language, history or culture of the designated country or region.
Comment: Instructor approval is required.

HUM 269J Study Abroad - Japan (1-3) KCC AA/DH and KCC AS/AH Summer
Variable numbers of hours lecture and lecture/lab per week
Prerequisite(s): Consent of instructor.
Recommended Preparation: One or more semester course(s) in the language, history or culture of the designated country or region.
Comment: HUM 269J is offered in the Summer semester only. Instructor approval is required.

HUM 295 (Alpha) Humanities Research Experience (1-3) KCC AA/DH and KCC AS/AH
3 hours cooperative education/work experience per week per credit
Prerequisite(s): Consent of instructor.
Comment: Letter grade only. HUM 295 (alpha) may not be audited. HUM 295 (alpha) may not be taken credit/no credit.

HUM 295HS Humanities Research in Hawaiian Studies (1-3) KCC AA/DH and KCC AS/AH
3 hours cooperative education/work experience per week per credit
Prerequisite(s): Consent of instructor.
Comment: Letter grade only. HUM 295HS may not be audited. HUM 295HS may not be taken credit/no credit. HUM 295HS may be repeated for a maximum of 6 credits.

HUM 295HS offers a research experience in Humanities, emphasizing methodological skills necessary to carry out independent, student designed scholarly research and inquiry in Hawaiian Studies.

Upon successful completion of HUM 295HS, the student should be able to:
1. Define a focus or theme and conduct literature research on theoretical frameworks on topics that demonstrate a familiarity with resources on Native Hawaiian knowledge including oral traditions, cultural practitioners, primary and secondary literature as well as visual and tactile expressions of Hawaiian culture.
2. Solicit ideas and select a plausible framework to support theme.
3. Design a theoretical framework (proposal perspective).
4. Synthesize researched information.
5. Test theoretical framework.
6. Document and formally present the results of thesis testing to an audience.

**HUM 295SI Humanities Research in Sustainability Issues (1-3)**
3 hours cooperative education/work experience per week per credit

*Comment: Letter grade only. HUM 295SI may not be audited. HUM 295SI may not be taken credit/no credit. HUM 295SI may be repeated for a maximum of 6 credits.*

HUM 295SI offers a research experience in Sustainability Issues, emphasizing methodological skills necessary to carry out independent, student designed scholarly research and inquiry in Sustainability.

Upon successful completion of HUM 295SI, the student should be able to:

1. Define a focus or theme and conduct literature research on theoretical frameworks on topics that demonstrate a familiarity with resources on Sustainability Issues including oral traditions, cultural practitioners, primary and secondary literature as well as visual and tactile expressions.
2. Solicit ideas and select a plausible framework to support theme.
4. Design a theoretical framework (proposal perspective).
5. Test theoretical framework.
6. Document and formally present the results of thesis testing to an audience.

**INFORMATION and COMPUTER SCIENCES**

**ICS 100 Computing Literacy and Applications (3) KCC AS/NS**
3 hours lecture per week

*Recommended Preparation: Keyboarding and basic computer use; and qualification for ENG 22 or qualification for ESOL 94; and qualification for MATH 82 or qualification for a higher-level mathematics course.*

ICS 100 is an introductory survey of computers and their role in the information world emphasizing computing terminology, hardware, and software. Opportunities for "hands on" experience using applications software may include spreadsheets, word processing, presentations, and communications.

Upon successful completion of ICS 100, the student should be able to:

1. Utilize the basic features of computing applications to communicate effectively (major content area).
2. Utilize operating system interfaces to manage computing resources effectively and securely.
3. Utilize online resources for research and communication.
4. Define, explain, and demonstrate proper computing terminology usage in areas such as hardware, software, and communications.
5. Describe ethical and security issues involved in the use of computing technology.

**ICS 101 Digital Tools for the Information World (3)**
3 hours lecture per week

*Recommended Preparation: Keyboarding experience and credit in or qualification for ENG 100 or credit in or qualification for ESL 100; and credit in or qualification for MATH 103 or credit in or qualification for a higher-level mathematics course.*

*Comment: ICS 101 meets requirements for Shidler College of Business at the University of Hawai‘i at Mānoa (UHM) and the College of Business at the University of Hawai‘i at Hilo (UHH).*

ICS 101 provides fundamental information technology concepts and computing terminology, productivity software for problem solving, computer technology trends and impact on individuals and society. Emphasizes the utilization of operating systems and the production of professional documents, spreadsheets, presentations, databases, and web pages.

Upon successful completion of ICS 101, the student should be able to:

1. Utilize the appropriate computing applications to produce professional documents, spreadsheets, presentations, databases, and web pages for effective communication (major content area).
2. Utilize operating system interfaces to manage computing resources effectively and securely.
3. Extract and synthesize information from available Internet resources using intelligent search and discrimination.
4. Define, explain, and demonstrate proper computing terminology usage in areas such as hardware, software, and communications to effectively interact with other computer users and to prepare for higher-level computer courses.
5. Describe ethical and security issues involved in the use of computing technology.
ICS 110 Introduction to Object Oriented Visual Programming (3)
3 hours lecture per week
Recommended Preparation: Keyboarding experience; MATH 82; a higher-level mathematics course; ENG 22; ICS 101.
ICS 110 is an introduction to programming with user-friendly software (e.g., Android Application Inventor). Students use storyboarding design strategies to create mobile device animations and/or simple games with objects using block coding methods. These projects promote an understanding of basic object-oriented programming constructs through the use of a drag and drop interface that manipulates device resources and readily available APIs (Application Programming Interfaces). Introductory projects based on contemporary and personal interests for students with or without programming experience will be emphasized.
Upon successful completion of ICS 110, the student should be able to:
1. Add components to a project.
2. Master fundamentals of programming terminology.
3. Use “looping.”
4. Gather form data.
5. Use variables.
7. Use event handlers.
9. Connect to a database.
10. Use phone camera resource.
11. Use phone bluetooth resource.

ICS 111 Introduction to Computer Science I (3)
3 hours lecture per week
Prerequisite(s): Qualification for MATH 135 or qualification for a higher-level mathematics course or consent of instructor.
Recommended Preparation: ICS 101 or an equivalent course.
ICS 111 offers an overview of the fundamentals of computer science emphasizing problem solving, algorithm development, implementation, and debugging/testing using an object-oriented programming language.
Upon successful completion of ICS 111, the student should be able to:
1. Use an appropriate programming environment to design, code, compile, run and debug computer programs.
2. Demonstrate basic problem solving skills: analyzing problems, modeling a problem as a system of objects, creating algorithms, and implementing models and algorithms in an object-oriented computing language.
3. Illustrate basic programming concepts such as program flow and syntax of a high-level general purpose language and basic security practices.
4. Demonstrate working with primitive data types, strings and arrays.

ICS 141 Discrete Mathematics for Computer Science I (3) KCC AA/FQ
3 hours lecture per week
Prerequisite(s): Qualification for MATH 135 or qualification for a higher-level mathematics course or consent of instructor.
Recommended preparation: ICS 101 or an equivalent course; and ICS 111.
Comment: ICS 141 provides the general mathematical foundation for the understanding of computer science concepts. It is intended for Computer Science majors and others interested in learning about the mathematics for Computer Science.
ICS 141 includes logic, sets, functions, matrices, algorithmic concepts, mathematical reasoning, recursion, counting techniques, and probability theory.
Upon successful completion of ICS 141, the student should be able to:
1. Analyze issues and apply mathematical problem solving skills to plan courses of action in decision-making situations.
2. Solve problems by using basic mathematical formal logic, proofs, recursion, analysis of algorithms, sets, combinatorics, relations, functions, matrices, and probability.

ICS 211 Introduction to Computer Science II (3)
3 hours lecture per week
Prerequisite(s): A grade of "B" or higher in ICS 111 or consent of instructor.
ICS 211 reinforces and strengthens problem-solving skills using abstract data types and introduces software development practices. ICS 211 emphasizes the use of searching and sorting algorithms and their complexity, recursion, object-oriented programming, and data structures.
Upon successful completion of ICS 211, the student should be able to:
1. Use and implement abstract data types such as lists, stacks, queues, and trees.
2. Select the appropriate searching or sorting algorithm based on the algorithm's behavior.
3. Develop recursive algorithms and programs.
4. Use standard libraries or packages as well as advanced object-oriented programming techniques (polymorphism, inheritance, and encapsulation).
   □ Produce robust and secure programs using exception handling and extensive program testing. □

ICS 212 Program Structure (3)
3 hours lecture per week
Prerequisite(s): A grade of "B" or higher in ICS 211 or consent of instructor.

ICS 212 includes program organization paradigms, programming environments, implementation of a module from specifications, the C and C++ programming languages.

Upon successful completion of ICS 212, the student should be able to:
1. Develop properly structured multi-file programs with automatic compilation.
2. Implement recursion, arrays, pointers, character variables, bitwise operators, structures, and linked data structures in C.
3. Use classes (constructors, destructor, and overloading assignment), operator overloading, inheritance, polymorphism, and linked data structures in C++.
   □ Use standard C++ strings and C++ STL library data structures, such as STL lists. □

ICS 241 Discrete Mathematics for Computer Science II (3)
3 hours lecture per week
Prerequisite(s): ICS 111; and a grade of "C" or higher in ICS 141 or consent of instructor.

ICS 241 includes program correctness, recurrence relations and their solutions, divide and conquer relations, graph theory, trees and their applications, Boolean algebra, introduction to formal languages and automata theory.

Upon successful completion of ICS 241, the student should be able to:
1. Analyze issues and apply complex mathematical problem solving skills to plan courses of actions in high-level decision-making situations.
2. Utilize such tools as graphs, trees, Boolean algebra, and recurrence relations.
   □ Explain discrete math concepts such as formal languages, finite-state machines, and program correctness. □

INTERDISCIPLINARY STUDIES

IS 54 Introduction to College for ESOL Students (1)
1 hour lecture per week
Prerequisite(s): A Test of English as a Foreign Language Internet-based Test (TOEFL iBT) score 32-60 or equivalent level.
Corequisite(s): ESOL 50 and ESOL 52.
Comment: IS 54 is part of the Intensive Program in ESOL and has special admissions requirements. IS 54 must be taken concurrently with ESOL 50 and ESOL 52. Collectively, these three courses comprise the Intensive Program in ESOL, which serves international students whose language proficiency at the time of admission to the College is between iBT 32 and 60 or equivalent.

IS 54 serves as an introduction to the college experience for first year international students (typically F-1 visa holders) concurrently enrolled in ESOL 50 and ESOL 52. Students learn about the U.S. college and university system, with particular emphasis on community colleges, Kapiʻolani Community College, and the University of Hawaiʻi. Students explore and write about college majors and programs relevant to their short and long-range academic goals, while further developing communication skills in English.

Upon successful completion of IS 54, the student should be able to:
1. Articulate short and long-range educational goals.
2. Use academic English to achieve, orally and in writing, communication goals in institutional settings.
3. Identify resources on campus including the library, counselors, and student support services.
4. Define and describe academic culture and the social and cultural expectations of going to college in the U.S.

IS 103 Introduction to College (3)
3 hours lecture per week
Recommended Preparation: Consent of instructor □qualification for or concurrent enrollment in ENG 22 □qualification for or concurrent enrollment in ESOL 94.
Upon successful completion of IS 108L, the student should be able to:

1. Increase awareness of and reflect on new perspectives about self, others, and community.
3. Acknowledge strengths and gifts in others in order to create effective working groups.
4. Communicate and interact effectively.
5. Articulate the significance of Queen Kapiʻolani and her legacy to the College and community.
6. Connect to the ʻāina where Kapiʻolani Community College resides and discover the historical significance of Lēʻahi (Laeʻahi) and its surrounding areas.
7. Determine one’s own personal responsibility and contribution to Hawai’i, its land, and its people.

**IS 108 Foundation for College Success (3)**

3 hours lecture per week  
Comment: Course materials and field trips will cost approximately $45.

IS 108 celebrates students' transition to college and creates learning experiences that foster success in college and in life. This course encourages self-reflection and growth, awareness of multiple perspectives, collaborative interactions, and an exploration of self and community in the context of place. Through this course, students will identify working and learning styles and strengths, discover their authentic voice, learn how to work more effectively in teams, and build a learning community through sharing of life stories and experiences that enrich and strengthen that community. Students will also develop a connection to and a responsibility for Kapiʻolani Community College and its surroundings, as well as an understanding of the legacy left by Queen Kapiʻolani, our namesake.

Upon successful completion of IS 108, the student should be able to:

1. Increase awareness of and reflect on new perspectives about self, others, and community.
3. Acknowledge strengths and gifts in others in order to create effective working groups.
4. Communicate and interact effectively.
5. Articulate the significance of Queen Kapiʻolani and her legacy to the College and community.
6. Connect to the ʻāina where Kapiʻolani Community College resides and discover the historical significance of Lēʻahi (Laeʻahi) and its surrounding areas.
7. Determine one’s own personal responsibility and contribution to Hawai’i, its land, and its people.

**IS 108L Foundation for College Success Laboratory (1)**

3 hours lab per week  
Prerequisite(s): Credit in IS 108.

Upon successful completion of IS 108L, the student should be able to:

1. Use strategies to complete out-of-class work efficiently and effectively.
2. Use research skills to identify moʻokuahuhau (lineage), one hānau (place of origin) and to hoʻolauna (introduction of se).
3. Use research skills to identify working styles to identify areas of improvement in learning to enhance classroom performance and the college experience.
4. Apply mindfulness techniques.
5. Apply personal and team responsibility and accountability.
6. Use appropriate technology for conducting research and conveying ideas.
7. Identify short and long range personal, college and career goals, and prepare an educational plan to meet those goals.
8. Use time management, personal organization, stress management and study skills.
9. Research occupations and use decision making processes in selecting a career.
10. Use research skills to identify moʻokuahuhau (lineage), one hānau (place of origin) and to hoʻolauna (introduction of se).
11. Use strategies to complete out-of-class work efficiently and effectively.
12. Use appropriate technology for conducting research and conveying ideas.

**IS 109 Na Waʻa: A Learning Odyssey (3)** KCC AA/DH and KCC AS/AH

3 hours lecture per week
Upon successful completion of IS 161 the student should be able to:

- Develop original solutions to problems by employing the basic strategies of creative thinking: synthesizing ideas, making connections across different domains, perceiving alternative perspectives, as well as applying divergent, inverse, metaphorical and analogical thinking.
- Describe and analyze the interdisciplinary nature of creative thinking.
- Describe and evaluate one’s own creative thinking process.
- Apply concepts of sustainability to local, regional and/or global challenges.

IS 161 Introduction to Creative Thinking (3) KCC AA/DA and KCC AS/AH
3 hour lecture per week

1. Develop original solutions to problems by employing the basic strategies of creative thinking: synthesizing ideas, making connections across different domains, perceiving alternative perspectives, as well as applying divergent, inverse, metaphorical and analogical thinking.
2. Describe and analyze the interdisciplinary nature of creative thinking.
3. Describe and evaluate one’s own creative thinking process.
4. Apply concepts of sustainability to local, regional and/or global challenges.

1. Use the financial planning process to budget and manage personal expenses.
2. Identify the financial resources available to fund a college education.
3. Identify types of student loans and repayment options, compare expected income with estimated monthly student loan payments, and understand the responsibilities of being a student loan borrower.
4. Calculate the total cost of a 2-year and/or 4-year degree.
5. Obtain a credit report, understand how it is used and what factors influence it, how to review for and report errors, and how credit scores can impact future financial decisions.
6. Identify the basic terminology of credit cards and bad credit habits.
7. Create a personal statement for scholarship applications.

IS 111 Financial Literacy (1)
1 hour lecture per week

IS 111 is designed to enhance students' knowledge and skills regarding personal finance to increase financial literacy. Students will learn the financial planning process and evaluate their money management attitudes and behaviors. In this course, students will determine the cost to fund their intended college degree and the possible financial resources available to attain that goal.

Upon successful completion of IS 111, the student should be able to:

1. Use the financial planning process to budget and manage personal expenses.
2. Identify the financial resources available to fund a college education.
3. Identify types of student loans and repayment options, compare expected income with estimated monthly student loan payments, and understand the responsibilities of being a student loan borrower.
4. Calculate the total cost of a 2-year and/or 4-year degree.
5. Obtain a credit report, understand how it is used and what factors influence it, how to review for and report errors, and how credit scores can impact future financial decisions.
6. Identify the basic terminology of credit cards and bad credit habits.
7. Create a personal statement for scholarship applications.

IS 109 celebrates students’ transition to college and focuses on learning experiences that encourage the exploration of identity, culture, and community in a context of place. Based on their insights and discoveries, students will develop a personal statement for scholarship applications and create a personal statement for scholarship applications. It is based on strategies for creating success in college and in life. While students will learn the financial planning process and evaluate their money management attitudes and behaviors. In this course, students will determine the cost to fund their intended college degree and the possible financial resources available to attain that goal.

Prerequisite(s): Qualification for ENG 22 or qualification for ESOL 94 or consent of instructor.

IS 109 Community College Courses

1. Identify the basic terminology of credit cards and bad credit habits.
2. Identify the financial resources available to fund a college education.
3. Develop original solutions to problems by employing the basic strategies of creative thinking: synthesizing ideas, making connections across different domains, perceiving alternative perspectives, as well as applying divergent, inverse, metaphorical and analogical thinking.
4. Describe and analyze the interdisciplinary nature of creative thinking.
5. Describe and evaluate one’s own creative thinking process.
6. Apply concepts of sustainability to local, regional and/or global challenges.
7. Create a personal statement for scholarship applications.

1. Develop original solutions to problems by employing the basic strategies of creative thinking: synthesizing ideas, making connections across different domains, perceiving alternative perspectives, as well as applying divergent, inverse, metaphorical and analogical thinking.
2. Describe and analyze the interdisciplinary nature of creative thinking.
3. Describe and evaluate one’s own creative thinking process.
4. Apply concepts of sustainability to local, regional and/or global challenges.
INFORMATION TECHNOLOGY

ITS 122 Cyber Security Fundamentals (3)
3 hours lecture per week
Prerequisite(s): Qualification for ENG 22 or qualification for ESOL 94 or qualification for a higher-level English course; and qualification for MATH 82 or qualification for a higher-level mathematics course.
Recommended Preparation: ICS 101.
Comment: Information Technology majors must take ITS 122 for a letter grade only.

ITS 122 introduces fundamental cyber security concepts. This course covers the fundamentals of risk management, cryptography, incident response and recovery, access control, authentication, types of attackers and attacks, and countermeasures. Students sometimes choose to take the CompTIA Security+ certification test following completion of this class because of the large overlap between this course and the Security+ exam objectives.

1. List the first principles of security and describe why each principle is important to security and its relationship to the development of security mechanisms and security policies.
2. Describe why good human machine interfaces are important to system use, the interaction between security and system usability and the importance for minimizing the effects of security mechanisms.
3. Analyze common security failures and identify specific design principles that have been violated, and the needed design principle, when given a specific scenario.
4. List the fundamental concepts of the Information Assurance/Cyber Defense discipline and describe how they can be used to provide system security.
5. Identify the elements of a cryptographic system and describe the differences between symmetric and asymmetric algorithms, which cryptographic protocols, tools and techniques are appropriate for a given situation, and implementation issues.

ITS 124 Small Business Networking (3)
3 hours lecture per week
Prerequisite(s): Qualification for ENG 100 or qualification for ESL 100 or qualification for a higher-level English course; and qualification for MATH 115 or qualification for a higher-level mathematics course.
Recommended Preparation: ICS 101.
Comment: ITS 124 may require hardware/software supplies up to $100.00 for hands-on activities. Information Technology majors must take ITS 124 for a letter grade only.

ITS 124 provides students with an overview of essential networking concepts, terminology and skills. The course gives students a fundamental understanding of the technological, business and legal issues related to a networked organization. The course also introduces the student to security concepts such as cryptography, digital signatures, key management and authentication. Some students may opt to take the CompTIA Network+ exam upon the completion of ITS 124 because much of the CompTIA Network+ exam material is covered in class.

Upon successful completion of ITS 124, the student should be able to:
1. Manage networking projects as part of a team.
2. Discuss information security technologies such as cryptography, digital signatures, key management, and authentication as they relate to computer networks.
3. Describe the fundamental concepts, technologies, components, terminology, protocols, standards organizations, and business, legal, ethical, and security issues related to communications and data networks.
4. Describe a basic secure network architecture in accordance with current best practices given a specific need and set of hosts/clients.
5. Use current network tools to monitor, map and troubleshoot a network and to track and identify packets.

ITS 128 Introduction to Problem Solving and the Programming Process (3)
3 hours lecture per week
Prerequisite(s): Qualification for ENG 22 or ESOL 94 or qualification for a higher-level English course; and qualification for MATH 82 or qualification for a higher-level mathematics course.
Recommended Preparation: Keyboarding experience and credit for ICS 101. Students are required to use Microsoft Office and have a basic familiarity with the Internet. Students need to be able to access course related technologies outside their classroom, including the integrated development environment: Microsoft Visual Studio. Students enrolled in ITS 128 will be able to obtain this software at no additional cost through the Microsoft Developer Network Academic Alliance (MSDNAA).
Comment: Information Technology majors must take ITS 128 for a letter grade only.

ITS 128 introduces students to problem solving, logical and programming skills used in a business computing environment. Step-by-step logic is provided and implemented in computer programs in a language deemed most appropriate for this course. Emphases are
ITS 128 Introduction to Computer Programming (3)
3 hours lecture per week
Prerequisite(s): Qualification for ENG 100 or qualification for ESL 100; and qualification for MATH 103 or qualification for MATH 115 or qualification for a higher-level mathematics course.
Recommended Preparation: ICS 101.
Comment: ITS 128 may require additional hardware/software supplies up to $50.00 for assignments/projects. Information Technology majors must take ITS 128 for a letter grade only.

Basic programming structures and concepts, common to all programming languages, are major components of this course. Upon successful completion of ITS 128, the student should be able to:

1. Communicate the steps in the development of a solution to a computing problem.
2. Design, document, and analyze program flowcharts and/or pseudocode as a solution to a computing problem.
3. Design, develop, and implement a programming solution using basic programming concepts for modern computing platforms.
4. Document, test, and debug programs to ensure accurate results.

ITS 129 Introduction to Databases (3)
3 hours lecture per week
Prerequisite(s): Qualification for ENG 100 or qualification for ESL 100; and qualification for MATH 103 or qualification for MATH 115 or qualification for a higher-level mathematics course.
Recommended Preparation: ICS 101.
Comment: ITS 129 may require additional hardware/software supplies up to $50.00 for assignments/projects. Information Technology majors must take ITS 129 for a letter grade only.

ITS 129 introduces the student to databases. The course covers the tools needed to query and modify database objects and introduces the student to database design concepts. A substantial part of the course involves the understanding of the relationship between databases, tables, records and fields. The course includes hands-on activities in a computer environment that provides the student with experience designing, creating, and manipulating a database using the appropriate information technology tools. Upon successful completion of ITS 129, the student should be able to:

1. Define common database terminology.
2. Design and create a relational database using normalization rules.
3. Define a database management system (DBMS) and demonstrate its functions.
4. Use Structured Query Language for relational database management and data manipulation.
5. Follow best practices in secure database design.

ITS 142 Network Security (3)
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in ITS 122 and a grade of "C" or higher in ITS 124.
Comment: Information Technology majors must take ITS 142 for a letter grade only.

ITS 142 provides an overview of network security principles and tools. This course emphasizes the practical application of skills needed to design, implement, and support network security. This course supports the development of critical thinking and complex problem-solving skills through hands-on labs and allows students to experiment with network behavior. Upon successful completion of ITS 142, the student should be able to:

1. Describe the security threats facing modern network infrastructures.
2. Secure network devices.
3. Secure the Local Area Network to mitigate common Layer 2 attacks.
4. Implement secure network design, management and reporting.

ITS 144 Computer Architecture Concepts and Support (3)
6 hours lecture per week for 8 weeks or
3 hours lecture per week for 16 weeks
Prerequisite(s): Qualification for ENG 100 or higher-level English course and qualification for MATH 82 or higher-level mathematics course.
Recommended Preparation: ICS 101.
Comment: ITS 144 may require hardware/software supplies or other resources up to $50.00 for hands-on activities.

ITS 144 provides computer architecture and support concepts and hands-on activities relating to the following topics: Computer operating system concepts, computer hardware concepts, computer security, Windows Operating Systems, Linux Operating Systems, Virtualization, Troubleshooting, Computer Maintenance, Operational Policies and Procedures. While the focus of the course is not certification exam preparation, ITS 144 is aligned with the CompTIA A+ certification test objectives. Upon successful completion of ITS 144, the student should be able to:

1. Describe and utilize the major types of operating systems currently in use by small businesses.
2. Describe the functions of operating systems and general operating system terminology.
3. Describe the basic features and functions of computer components.
4. Install, maintain, and troubleshoot various computer components.
5. Securely configure a computer system on a network.
6. Describe virtualization and install and utilize virtual machines.
ITS 148 Visual Studio.NET Programming I (3)
3 hours lecture per week.
Prerequisite(s): A minimum grade of "C" in BUS 100 or consent of Business, Legal, and Technology department chairperson, program coordinator, or instructor.
Recommended Preparation: Keyboarding experience or credit for ICS 101. Students are required to use Microsoft Office and have a basic familiarity with the Internet. Students need to be able to access course related technologies outside their classroom, including Microsoft Visual Studio .NET. Students enrolled in ITS 148 will be able to obtain this software at no additional cost through the Microsoft Imagine Program.
Comment: Information Technology majors must take ITS 148 for a letter grade only.

ITS 148 is an intermediate level programming course in using modern programming tools to provide viable computing solutions in a business environment. It is assumed that the student is familiar with computer programming. Applications with forms, classes, and code are developed in a programming language deemed most appropriate for the course. Computer applications are executed, debugged and undergo tests of their validity. Object oriented programming concepts are emphasized and realized through the creation of user defined classes and their properties and methods. Data validation and general procedure development are also components of this course.

ITS 149 (Alpha) Topics in Database Administration I (3)
3 hours lecture per week.
Prerequisite(s): ITS 129 or consent of the instructor or BLT department chair.
Recommended Preparation: ICS 100 or ICS 101.
Comment: ITS 149 may require additional hardware/software supplies as well as a minimum 16GB external disk drive. Information Technology majors must take ITS 149 for a letter grade only.

ITS 149 (Alpha) Topics in Database Administration I (3)
3 hours lecture per week.
Prerequisite(s): ITS 129 or consent of the instructor or BLT department chair.
Recommended Preparation: ICS 100 or ICS 101.
Comment: ITS 149AD may require additional hardware/software supplies as well as a minimum 16GB external disk drive. Information Technology majors must take ITS 149AD for a letter grade only.

ITS 149AD Database Administration I (3)
3 hours lecture per week.
Prerequisite(s): ITS 129 or consent of the instructor or BLT department chair.
Recommended Preparation: ICS 100 or ICS 101.
Comment: ITS 149AD may require additional hardware/software supplies as well as a minimum 16GB external disk drive. Information Technology majors must take ITS 149AD for a letter grade only.

ITS 149R Database Administration I: Introduction to Data Analytics and R (3)
3 hours lecture per week.
Prerequisite(s): A grade of "C" or higher in BUS 100 or a grade of "C" or higher in ITS 128 or a grade of "C" or higher in ITS 129 or consent of instructor or Business, Legal, &Technology Department Chairperson.
Recommended Preparation: ICS 100 or ICS 101.
Upon successful completion of ITS 227, the student should be able to:

1. Demonstrate the ability to connect to and navigate the Internet, create World Wide Web pages, and develop World Wide Web sites. A variety of Internet resources will be demonstrated and subsequently explored by students.

2. Demonstrate the utilization of professional tools used in maintaining and managing an Information Technology enterprise.

3. Demonstrate professional writing skills used in creating and maintaining management and planning documents in an organization’s structure and mission. Students will learn about how a Help Desk fits into an organization’s structure and mission. Students will learn about the protocol and processing of incidents, and the different security technologies/methods that should be employed.

4. Demonstrate professional communication skills needed to isolate and identify Information Technology related problems.

5. Identify the bad actors in cyberspace and compare and contrast their resources, capabilities/techniques, motivations, aversion to risk, and threat potential.

6. List the applicable ethical issues, laws and policies related to cyber defense and digital forensics and describe the major components of each pertaining to the storage and transmission of data and resolution of legal disputes.

7. Examine the architecture of a typical, complex system and identify significant vulnerabilities, risks, and points at which specific security technologies/methods should be employed.

ITS 227 Web Site Development (3)
3 hours lecture per week

ITS 227 introduces the student to the Internet and its effects on modern society. Students will review its history, concepts, and terminology. Hands-on activities will include how to connect to and navigate the Internet, create World Wide Web pages, and develop World Wide Web sites. A variety of Internet resources will be demonstrated and subsequently explored by students.

Upon successful completion of ITS 227, the student should be able to:

1. Describe database administration concepts and processes.

2. Define and use database management system (DBMS) administration terminology.

3. Demonstrate the ability to list the applicable ethical issues, laws and policies related to cyber defense and digital forensics and describe the major components of each pertaining to the storage and transmission of data and resolution of legal disputes.

4. Demonstrate professional communication skills needed to isolate and identify Information Technology related problems.

5. Identify the bad actors in cyberspace and compare and contrast their resources, capabilities/techniques, motivations, aversion to risk, and threat potential.

6. List the applicable ethical issues, laws and policies related to cyber defense and digital forensics and describe the major components of each pertaining to the storage and transmission of data and resolution of legal disputes.

7. Examine the architecture of a typical, complex system and identify significant vulnerabilities, risks, and points at which specific security technologies/methods should be employed.

Comment: ITS 149R may require additional hardware/software supplies as well as a minimum 16GB external disk drive. Information Technology majors must take ITS 149R for a letter grade only.

ITS 222 Cyber Attacks and Defense (3)
3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in ITS 142.

Comment: Information Technology majors must take ITS 222 for a letter grade only.

ITS 222 is an interactive course focusing on enumerating, scanning, hacking, and securing computer systems. Students will gain practical experience in both cyber attack and defense strategies and tactics. ITS 222 emphasizes ethical and legal issues related to cyber attacks and defense.

Upon successful completion of ITS 222, the student should be able to:

1. Identify, describe, and apply current cyber attack, defense incident response, and recovery strategies, tactics, countermeasures, and best practices using current cyber defense tools, methods, and components.

2. Identify the bad actors in cyberspace and compare and contrast their resources, capabilities/techniques, motivations, aversion to risk, and threat potential.

3. List the applicable ethical issues, laws and policies related to cyber defense and digital forensics and describe the major components of each pertaining to the storage and transmission of data and resolution of legal disputes.

4. Examine the architecture of a typical, complex system and identify significant vulnerabilities, risks, and points at which specific security technologies/methods should be employed.

ITS 224 Help Desk Support Practices (3)
3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in ITS 124 and a grade of "C" or higher in ITS 144 or consent of the instructor or consent of the BLT department chairperson.

ITS 224 introduces the Information Technology student to the key concepts and skills of Help Desk operation. Students will study how a Help Desk fits into an organization’s structure and mission. Students will learn about the protocol and processing of incidents, and the different security technologies/methods that should be employed.

Students will have opportunities to both study and practice Help Desk operations in a controlled setting. Students will learn about knowledge, asset and security management and how important these are to an organization’s integrity. Students will learn about how a Help Desk fits into an organization’s structure and mission. Students will learn about the protocol and processing of incidents, and the different security technologies/methods that should be employed.
1. Discuss the history of the Internet.
2. Define the Internet.
3. Use the terminology of the Internet.
4. Explain how the Internet works.
5. Describe the e-commerce use of information technology.
6. Access the Internet through different protocols.
7. Work with the operating systems to connect to the Internet.
8. Navigate through various Internet resources to process e-mail, access information, and communicate with other networks.
10. Write HTML tags from scratch and by using Rapid Development Tool.
11. Write CSS selectors inline, embedded, and external both from scratch and by using Rapid Development Tool.
12. Write basic Javascript code from scratch and by using Rapid Development Tool.
15. Disseminate information on the Internet.
16. Explain the social impact of the Internet.
17. Describe current problems of the Internet.
18. Assess the future potential of the Internet.

**ITS 228 Problem Solving and the Programming Process III (3)**

3 hours lecture per week

**Prerequisite(s):** ITS 148 or consent of the Business, Legal, and Technology department chairperson, IT program coordinator, or instructor.

**Comment:** Information Technology majors must take ITS 228 for a letter grade only.

ITS 228 is an advanced-intermediate course using an industry standard object oriented programming language and an industry standard Integrated Development Environment (IDE) to provide viable computing solutions in business and industry. Enhanced user interfaces, especially those used in multi-form applications are covered. Object oriented programming concepts regarding inheritance are emphasized and realized through the creation of user defined derived classes that overload and override base classes. Database application development is also a component of this course.

**ITS 229 (Alpha) Professional Database Skills (3)**

3 hours lecture per week

**Prerequisite(s):** ITS 129 and ITS 149. Recommended Preparation: ICS 100 or ICS 101.

**Comment:** ITS 229 may require additional hardware/software supplies as well as a minimum 16GB external disk drive. Information Technology majors must take ITS 229 for a letter grade only.

ITS 229 (Alpha) covers hands-on practical skills necessary to the study and practice of database professionals. As technology and databases evolve over time, topics covered in this course may vary in order to maintain currency with industry standards. Course coverage emphasizes timely, real world situations and provides an opportunity for students to integrate new skills with competencies learned in prerequisite courses. Concepts will be discussed, demonstrated, exercised, and applied primarily through class assignments and projects. Successful students will be able to effectively demonstrate use of databases in administrative functions, data mining, and/or data analytics skills at a professional level.

**ITS 229AD Database Administration II (3)**

3 hours lecture per week

**Prerequisite(s):** ITS 149AD with a grade of C or higher or consent of instructor or Business, Legal, & Technology Department Chairperson. Recommended Preparation: ICS 100 or ICS 101.

**Comment:** ITS 229AD must be taken for a letter grade only for program credit.

ITS 229AD covers hands-on practical skills necessary to the study of database administration and advances students’ knowledge of
ITS 229P Professional Database Skills: Database Analytics with Python (3)
3 hours lecture per week
Prerequisites: A grade of "C" or higher in BUS 100 or a grade of "C" or higher in ITS 128 or a grade of "C" or higher in ITS 129 or consent of instructor or Business, Legal, &Technology Department Chairperson.
Recommended Preparation: ICS 100 or ICS 101 or ITS 149R.
Comment: ITS 229P may require additional hardware/software supplies as well as a minimum 16GB external disk drive. Information Technology majors must take ITS 229P for a letter grade only.

ITS 293 Information Technology Program Internship (3)
1 hour lecture, 8 hours internship per week
Prerequisite(s): Consent of instructor, Program Coordinator or Business, Legal, &Technology Department Chairperson.
Comment: ITS 293 is repeatable for a maximum of nine credits; however, only three credits can be applied towards the fulfillment of requirements for the A5 degree in Information Technology. Information Technology majors must take ITS 293 for a letter grade only.

ITS 344 Small Business Server Administration (3)
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in ITS 224 or consent of instructor, Program Coordinator or Business, Legal, &Technology Department Chairperson.
Comment: ITS 344 may require hardware/software supplies for hands-on activities up to $50.00.
Kapi'olanilani Community College Courses

2021–2022, H-I, page 38

management, consoles, applications servers, web environment, FTP, web servers, IIS, terminal services, remote administration, physical environment considerations, server virtualization concepts, system monitoring tools, documentation, and application of industry best practices.

Upon successful completion of ITS 344, the student should be able to:
1. Describe the types of small business server operating systems currently in use.
2. Describe the functions of server operating systems.
3. Define general server terminology.
4. Describe the basic features and characteristics of PC processors and their operating systems.
5. Demonstrate basic features of Windows and UNIX/Linux based servers.
6. Install a server operating system and manage a network domain.
7. Install and configure networked printers and other shared peripherals.
8. Create user accounts and groups.
9. Describe basic server security.
10. Administer group policies.
11. Describe various server-based services.
12. Perform administrative duties on a server.
13. Summarize server virtualization concepts, features and considerations.
14. Determine an appropriate physical environment for server location.
15. Describe the importance of documentation and industry best practices.
16. Describe backup and disaster recovery concepts.

ITS 381 (Alpha) Topics in Information Technology (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 224 and a grade of “C” or higher in ITS 227 and a grade of “C” or higher in ITS 228 and a grade of “C” or higher in ITS 229AD and a grade of “C” or higher in all prerequisites of the same topic or consent of the Business Education Department Chairperson, program coordinator, or instructor.
Comment: ITS 381 may require hardware and/or software supplies for hands-on activities up to $150.

ITS 381B Topics in Information Technology: Mobile Application Development (3)
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in ITS 224 and a grade of "C" or higher in ITS 227 and a grade of "C" or higher in ITS 228 and a grade of "C" or higher in ITS 229AD and a grade of "C" or higher in all prerequisite courses of the same topic; or consent of instructor, Program Coordinator or Business, Legal, &Technology Department Chairperson.

ITS 381B is a project-based course implementing the principles of mobile application design and development. Topics will include mobile app lifecycle; the Model View ViewModel (MVVM) architectural pattern; gesture-based user interface (UI) design and development; animations; page controls and navigation; data handling, storage and backup; maps and geolocation; camera, media and audio; and app packaging, monetization, and publication. Projects will be deployed in a cloud-based hosting facility, such as an app store. Course work will include project conception, design, implementation, and pilot testing of mobile applications. Each step of the process will be journaled and be maintained in a learning log, using a contemporary Weblog tool.

Upon successful completion of ITS 381B, the student should be able to:
1. Synthesize and apply knowledge of the Mobile Application Development Lifecycle and Model View ViewModel (MVVM) architectural pattern.
2. Practice decision making skills by identifying a target business need or problem and design a solution choosing appropriate supporting technology.
3. Develop graphical user interfaces (GUIs) with intuitive layouts combining mobile interface design features.
4. Implement contemporary features of a mobile software development toolkit, including page controls and navigation, maps and geolocation, camera, media and audio.
5. Utilize tools of a software development toolkit to package, monetize, and publish mobile applications.
6. Understand and implement security features and limitations of modern mobile operating systems.
7. Create a working professional portfolio, including a collection of open source code from class projects using a software hosting repository.
8. Maintain a professional engineering weblog (blog) documenting the process, challenges and experience of mobile applications development in a professional capacity.

**ITS 381CV Topics in Information Technology: Cloud Virtualization (3)**
3 hours lecture per week

**Prerequisite(s):** A grade of "C" or higher in ITS 122 and a grade of "C" or higher in ITS 124 and a grade of "C" or higher in ITS 142 and a grade of "C" or higher in ITS 144.

**Comment:** Students may need to spend up to $100 for access to online resources or licenses.

The purpose of ITS 381CV is to maintain currency with rapidly and burgeoning information technology area of virtualization throughout the world, with an emphasis in Hawai‘i’s business industry. Students will learn exactly what virtualization is and what its advantages and disadvantages are. They will learn the process of setting up, configuring, managing, administering, and distributing virtual machines. Students will learn about both virtual servers as well as virtual desktops. They will be exposed to various vendors that provide virtualization.

Upon successful completion of ITS 381CV, the student should be able to:
1. Describe its history.
2. Define and use its terminology.
3. Describe its concepts and features.
4. Apply skills in the creation and management of a networking and/or software systems.
5. Evaluate the implementation of the hardware and/or software system for efficiency and effectiveness.
6. Apply skills in the software or network installation, configuration, or modification.
7. Describe its relationship to other technologies.
8. Describe its impact on current business practices.
9. Explain Data Center Virtualization Concepts and Identify Typical Data Center Challenges.
10. Identify, Explain and Differentiate Virtualization Technologies.
13. Install and Configure Hypervisor Software.
15. Configure virtual Storage.
16. Deploy and Administer Virtual Machines.

**ITS 381F Topics in Information Technology: Computer Forensics and Investigations (3) Spring**
3 hours lecture per week

**Prerequisite(s):** A grade of "C" or higher in ITS 224 and a grade of "C" or higher in ITS 227 and a grade of "C" or higher in ITS 228 and a grade of "C" or higher in ITS 229AD and consent of instructor, Program Coordinator or Business, Legal, & Technology Department Chairperson.

**Recommended Preparation:** Associate in Science degree in Information Technology or related field or equivalent related course work in Information Technology.

**Comment:** For hands-on activities ITS 381F may require hardware and/or software supplies costing up to $150. ITS 381F is offered in the spring semester only.
Upon successful completion of ITS 381OS, the student should be able to:

- Describe the functions of server operating systems to include memory management, process management, and file system organization.
- Describe the types of small business server operating systems currently in use and demonstrate their basic features.
- Explain the impact of server management tools on current business practices.
- Describe its relationship to other technologies.
- Apply skills in the software or network installation, configuration, or modification.
- Evaluate the implementation of the hardware and/or software system for efficiency and effectiveness.
- Apply skills in the creation and management of server-based user interfaces (UI) design and operating systems.
- Define and use its terminology.
- Describe its history.
- Describe its concepts and features.

This course will cover the following topics: overview of Network servers, installation and configuration including automated technologies such as IIS and Apache. This will be combined with a practical approach to installation, remote installation, file system management, and remote administration throughout the world, with an emphasis in Hawai`i's business industry by using current Web server hosting repository.

The purpose of ITS 381OS is to maintain currency with rapidly changing technologies network business server operating system systems, availability, redundancy, and fault tolerance, network management, application and process management.

Comment: Course materials, supplies, licenses for ITS 381OS may cost approximately $100.

ITE 381OS Small Business Server OS Administration (3)
3 hours lecture per week
Prerequisites: A grade of "C" or higher in ITS 142 & Technology Department Chairperson.

Upon successful completion of ITS 381M, the student should be able to:

1. Synthesize and apply knowledge of the Mobile Application Development Lifecycle and Model View View Model (MVVM) architectural pattern.
2. Practice decision-making skills by identifying a target business need or problem and design a solution choosing appropriate supporting technology.
3. Develop graphical user interfaces (GUIs) with intuitive layouts combining mobile interface design features.
4. Implement contemporary features of a mobile software development toolkit, including page controls and navigation, data handling, storage and backup; maps and geolocation; camera, media and audio; and app packaging, monetization, and publication. Projects will be deployed in a cloud-based hosting facility, such as an app store. Course work will include project conception, design, implementation, and pilot testing of mobile applications. Each step of the process will be journaled and be maintained in a learning log, using a contemporary Weblog tool.

ITS 381M Topics in Information Technology: Mobile Application Development (3)
3 hours lecture per week
Prerequisites: A grade of "C" or higher in ITS 224 and a grade of "C" or higher in ITS 227 and a grade of "C" or higher in ITS 228 and a grade of "C" or higher in ITS 229AD and a grade of "C" or higher in all prerequisites of the same topic; or consent of instructor, Program Coordinator or Business, Legal, & Technology Department Chairperson.

ITS 381M is a project-based course implementing the principles of mobile application design and development. Topics will include mobile app lifecycle; the Model View View Model (MVVM) architectural pattern; gesture-based user interface (UI) design and development; animations; page controls and navigation; data handling, storage and backup; maps and geolocation; camera, media and audio; and app packaging, monetization, and publication. Projects will be deployed in a cloud-based hosting facility, such as an app store. Course work will include project conception, design, implementation, and pilot testing of mobile applications. Each step of the process will be journaled and be maintained in a learning log, using a contemporary Weblog tool.

1. Design a solution choosing appropriate supporting technology.
2. Develop graphical user interfaces (GUIs) with intuitive layouts combining mobile interface design features.
3. Implement contemporary features of a mobile software development toolkit, including page controls and navigation, data handling, storage and backup; maps and geolocation; camera, media and audio.
4. Utilize tools of a software development toolkit to package, monetize, and publish mobile applications.
5. Understand and implement security features and limitations of modern mobile operating systems.
6. Create a working professional portfolio, including a collection of open source code from class projects using a software-hosting repository.
7. Maintain a professional engineering weblog (blog) documenting the process, challenges and experience of mobile applications development in a professional capacity.
ITS 382 (Alpha) Topics in Information Technology Cyber Security Technologies (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 222 or consent of instructor. Program Coordinator or Business, Legal & Technology Education Department Chairperson.
Comment: ITS 382 (Alpha) may require hardware and/or software supplies for hands-on activities up to $100. Information Technology majors must take all ITS courses for a letter grade.

ITS 382 (Alpha) presents contemporary Information Technology Cyber Security Technologies topics, which may include various security techniques, risk threat and mitigation, forensics, ethical hacking and others as they emerge. The purpose of ITS 382 (Alpha) is
Upon successful completion of ITS 382RF, the student should be able to:

1. Describe appropriate measures to be taken should a system compromise occur.
2. Describe different types of attacks and their characteristics.
3. Identify the major concepts in modern operating systems and the basic security issues in OS design and implementation.
4. Describe the steps in performing digital forensics from the initial recognition of an incident through the steps of evidence gathering, preservation and analysis, through the completion of legal proceedings.

ITS 382RF Topics in Information Technology: Incident Response and Forensics (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 227 or consent of instructor, Program Coordinator or Business, Legal & Technology Education Department Chairperson.
Comment: ITS 382RF may require hardware and/or software supplies for hands-on activities up to $100. Information Technology majors must take all ITS courses for a letter grade.

ITS 382RF addresses a contemporary Information Cyber Security need in forensics and incident response. Even the best maintained and defended networks are vulnerable to intrusion incidents. ITS 382RF teaches computer forensics principles based around the purpose of enabling incident response actions in a business network environment. Building off a fundamental understanding of information security concepts, students will learn best practices for detecting, analyzing, and handling malicious activity. To assist students in to maintaining currency with rapidly changing cyber security technologies, topics may include Linux forensics, Windows forensics, disk and memory forensics, malware triage, network forensics, threat modeling, analysis techniques, and incident response procedures.

Upon successful completion of ITS 382RF, the student should be able to:

1. Describe appropriate measures to be taken should a system compromise occur.
2. Describe different types of attacks and their characteristics.
3. Identify the major concepts in modern operating systems and the basic security issues in OS design and implementation.
4. Describe the steps in performing digital forensics from the initial recognition of an incident through the steps of evidence gathering, preservation and analysis, through the completion of legal proceedings.

ITS 387 (Alpha) Topics in Information Technology Web Technologies (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 227 or consent of instructor, Program Coordinator or Business, Legal & Technology Education Department Chairperson.
Comment: ITS 387 may require hardware and/or software supplies for hands-on activities up to $100. ITS majors must take all ITS courses for a letter grade.

ITS 387 (Alpha) presents contemporary Information Technology Web Technologies topics, which may include various web development languages, rapid development tools, web application development, web and database connectivity and others as they emerge. The purpose of ITS 387 is to maintain currency with rapidly changing web technologies throughout the world, with an emphasis in Hawai‘i’s business industry.

Upon successful completion of ITS 387 (Alpha), the student should be able to:

1. Describe its history.
2. Define and use its terminology
3. Describe its concepts and features.
4. Evaluate the implementation of the software system for efficiency and effectiveness.
5. Apply skills in the software installation, configuration, or modification.
6. Describe its relationship to other technologies.
7. Describe its impact on current business practices.

ITS 387J Dynamic HTML (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 227 or consent of instructor, Program Coordinator or Business, Legal & Technology Education Department Chairperson.
Comment: ITS 387J may require hardware and/or software supplies for hands-on activities up to $100. ITS majors must take all ITS courses for a letter grade. Coursework will require the use of a flat ASCII editor such as Notepad++ or Brackets. Students will implement Javascript libraries such as Jquery in websites, creating dynamic sites that are responsive to user input.

ITS 387J expands on the contemporary Information Technology Web Technology skill sets of HTML, CSS (Cascading Style Sheets), and Javascript. To assist students in maintaining currency in rapidly changing technologies, ITS 387J focuses on streamlined coding for design, dynamic content, and interactivity. Students will learn how to create Cascading Style Sheets that both control the layout and design of entire websites using a minimal amount of code. Students will learn how to create Dynamic HTML (DHTML) that changes both the content and format of Web pages depending on user input.

Upon successful completion of ITS 387J, the student should be able to:

1. Describe its history.
ITS 387P Programming Database Driven Websites (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 227 or equivalent; or consent of Business, Legal & Technology Education Department Chairperson.
Comment: A modern computer is recommended.

Upon successful completion of ITS 387P, the student should be able to:
1. Define and use its terminology
2. Describe its concepts and features
3. Describe its impact on business practices
4. Describe its relationship to other technologies
5. Define and use its terminology
6. Describe its concepts and features
7. Evaluate the implementation of the software system for efficiency and effectiveness
8. Describe its concepts and features
9. Define and use its terminology
10. Define and use its terminology
11. Describe its concepts and features
12. Define and use its terminology
13. Describe its concepts and features
14. Define and use its terminology

ITS 388 (Alpha) Topics in Information Technology: Programming Technologies (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 227 and ITS 129 or consent of instructor or Consent of Program Coordinator or Consent of Business, Legal & Technology Education Department Chairperson.
Comment: A modern computer is recommended.

ITS 388 (Alpha) presents contemporary Information Technology Programming Technologies topics in various programming languages, rapid development tools, app development, database connectivity and others as they emerge. The purpose of ITS 388 is to maintain currency with rapidly changing programming technologies throughout the world, with an emphasis in Hawai‘i’s business industry.

Upon successful completion of ITS 388 (Alpha), the student should be able to:
1. Use an appropriate programming environment to design, code, run and debug computer programs.
2. Work with numbers and common data type such as strings, lists, and dictionaries.
3. Utilize arrays, methods and classes.
4. Practice solving problems using program structures utilizing decisions and loops and data structures such as list, tuples, and dictionaries.
5. Use appropriate libraries to access classes and methods.
6. Use exception handling special cases such as program errors.
7. Examine the security issues that exist in the programming language.

ITS 388AL Topics in Information Technology: Assembly Language Programming for Intel and AMD Microprocessor Based Systems (3)
3 hours lecture per week
Prerequisite(s): A grade of "C" or higher in ITS 128 or equivalent; or a grade of "C" or higher in ITS 144.
Upon successful completion of ITS 388J and deploy a modern, non-trivial application from end to end. The student should be able to:

1. Use an appropriate programming environment to design, code, run and debug computer programs.
2. Work with numbers and common data type such strings, lists, and dictionaries.
3. Utilize arrays, methods and classes.
4. Practice solving problems using program structures utilizing decisions and loops and data structures such as list, tuples, and dictionaries.
5. Use appropriate libraries to access classes and methods.
6. Use exception handling for special cases such as program errors.
7. Examine the security issues that exist in the programming language.
8. Diagram, analyze, and participate in a large-scope programming project.

**ITS 388C Application Development in C# (3)**

3 hours lecture per week

**Prerequisite(s):** A grade of "C" or higher in ITS 228 or a grade of "C" or higher in ITS 229AD or consent of instructor, the Program Coordinator or the Business, Legal & Technology Education Department Chairperson.

**Comment:** Letter grade only. ITS 388C may not be audited. ITS 388C may not be taken credit/no credit.

ITS 388C provides a controlled, structured environment for the student to experience the entire sweep of activities necessary to create and deploy a modern, non-trivial application from end to end.

Upon successful completion of ITS 388C, the student should be able to:

1. Use an appropriate programming environment to design, code, run and debug computer programs.
2. Work with numbers and common data type such strings, lists, and dictionaries.
3. Utilize arrays, methods and classes.
4. Practice solving problems using program structures utilizing decisions and loops and data structures such as list, tuples, and dictionaries.
5. Use appropriate libraries to access classes and methods.
6. Use exception handling for special cases such as program errors.
7. Examine the security issues that exist in the programming language.
8. Diagram, analyze, and participate in a large-scope programming project.

**ITS 388J Application Development in Java (3)**

3 hours lecture per week

**Prerequisite(s):** A grade of "C" or higher in ITS 228 or a grade of "C" or higher in ITS 229AD or consent of instructor, the Program Coordinator or the Business, Legal & Technology Education Department Chairperson.

**Comment:** Letter grade only. ITS 388J may not be audited. ITS 388J may not be taken credit/no credit.

ITS 388J provides a controlled, structured environment for the student to experience the entire sweep of activities necessary to create and deploy a modern, non-trivial application from end to end.

Upon successful completion of ITS 388J, the student should be able to:

1. Use an appropriate programming environment to design, code, run and debug computer programs.
2. Work with numbers and common data type such strings, lists, and dictionaries.
3. Utilize arrays, methods and classes.
4. Practice solving problems using program structures utilizing decisions and loops and data structures such as list, tuples, and dictionaries.
5. Use appropriate libraries to access classes and methods.
6. Use exception handling for special cases such as program errors.
7. Examine the security issues that exist in the programming language.
8. Diagram, analyze, and participate in a large-scope programming project.
ITS 388PY Topics in Information Technology: Python Programming (3)  
3 hours lecture per week  
Prerequisite(s): A grade of "C" or higher in ITS 227 and a grade of "C" or higher in ITS 228 and a grade of "C or higher in ITS 229AD; or consent of instructor or Program Coordinator.  
Recommended Preparation: Associate in Science degree in Information Technology program or equivalent related course work in Information Technology.  
Comment: ITS 388PY may require hardware supplies up to $100.00 for hands-on activities. Please budget your time to use the BLT Lab computers if you do not have access to computers with broadband access outside of the lab.

ITS 388PY covers the essentials of the Python programming language (data types, data structures, if/else statements, looping, functions and exceptions). To assist students in maintaining currency with the rapidly changing programming technologies ITS 388PY goes into depth in certain areas such as arrays, graphing, objects and classes, and GUI programming. The Python programming language can be used in Web Development and also for data access, analysis, and visualization.

Upon successful completion of ITS 388PY the student should be able to:
1. Use an appropriate programming environment to design, code, run and debug computer programs.
2. Work with numbers and common data type such strings, lists, and dictionaries.
3. Utilize arrays, methods and classes.
4. Practice solving problems using program structures utilizing decisions and loops and data structures such as list, tuples, and dictionaries.
5. Use appropriate libraries to access classes and methods.
6. Use exception handling special cases such as program errors.
7. Examine the security issues that exist in the programming language.
8. Use the Python programming language to create business applications.

ITS 389 (Alpha) Topics in Information Technology Database Technologies (3)  
3 hours lecture per week  
Prerequisite(s): A grade of "C" or higher in ITS 229AD or consent of instructor, Program Coordinator or Business, Legal & Technology Education Department Chairperson.  
Comment: ITS 389 may require hardware and/or software supplies for hands-on activities up to $100.

ITS 389 (Alpha) presents contemporary Information Technology Database Technologies, such as cloud hosted databases, non-relational database technologies, and others as they emerge. The purpose of ITS 389 is to maintain currency with rapidly changing database technologies throughout the world, with an emphasis in Hawaii's business industry.

Upon successful completion of ITS 389 (Alpha), the student should be able to:
1. Describe the history of the technology.
2. Define and use terminology of the technology.
3. Describe concepts and features of the technology.
4. Evaluate the implementation of the database system for efficiency and effectiveness.
5. Apply skills in the database installation, configuration, or modification.
6. Describe the relationship of this technology to other technologies.
7. Describe the impact of this technology on current business practices.

ITS 389BD Database Analytics: Big Data and NoSQL (3)  
3 hours lecture per week  
Prerequisite(s): A grade of "C" or higher in ITS 229AD or consent of the instructor or BLT department chair.  
Comment: ITS 389BD may require additional hardware/software supplies as well as a minimum 16GB external disk drive.  
Information Technology majors must take ITS 389BD for a letter grade only.
ITS 389C Topics in Information Technology Database Technology: Cloud (3)
3 hours lecture per week
Prerequisite(s): A grade of “C” or higher in ITS 229AD or consent of instructor, Program Coordinator or Business, Legal & Technology Education Department Chairperson.
Recommended Preparation: ICS 100 or ICS 101.
Comment: ITS 389C may require hardware and/or software supplies for hands-on activities up to $100.

ITS 389C advances the students’ knowledge of database technology by adding the advantages, complexities, and new security concerns of current cloud hosting systems such as Amazon Web Service (AWS). To assist students in maintaining currency with rapidly changing database technologies, ITS 389C will teach students how to design, create, deploy, secure, administer, extend, backup, and recover databases in a virtualized remote hosting system.

Upon successful completion of ITS 389C, the student should be able to:
1. Describe the history of the technology.
2. Define and use terminology of the technology.
3. Describe concepts and features of the technology.
4. Evaluate the implementation of the database system for efficiency and effectiveness.
5. Apply skills in the database installation, configuration, or modification.
6. Describe the relationship of this technology to other technologies.
7. Describe the impact of this technology on current business practices.
8. Design databases to be deployed into a virtualized remote hosting system, such as Amazon Web Services (AWS).
9. Create databases in a virtualized remote hosting system; such as Amazon Web Services (AWS).
10. Deploy databases in a virtualized remote hosting system; such as Amazon Web Services (AWS).
11. Secure databases in a virtualized remote hosting system; such as Amazon Web Services (AWS).
12. Administer databases in a virtualized remote hosting system; such as Amazon Web Services (AWS).
13. Extend databases in a virtualized remote hosting system; such as Amazon Web Services (AWS).
14. Backup databases in a virtualized remote hosting system; such as Amazon Web Services (AWS).
15. Recover databases in a virtualized remote hosting system; such as Amazon Web Services (AWS).