Bachelor of Applied Science: Applied Business & Information Technology

The Bachelor of Applied Science (BAS) degree in Applied Business & Information Technology (ABIT) combines curricula from business, information technology, and liberal arts that emphasize entrepreneurship and small-to-medium sized business management.

Only courses numbered 100 and above can be applied toward this degree.

ABIT Admission Requirements

For admission to the UH Maui College ABIT program, students must first meet the UH Maui College admission requirements. Admission to UH Maui College does not guarantee admission to the ABIT program.

ABIT Graduation Requirements

1. **Business Core: 30 credits**
   ACC 201, 202, 300; BLAW 200; BUS 310, 320; ECON 130, 131; MGT 310; and MKT 300.

2. **Information Technology Core: 24-25 credits**
   ICS 101 or BUSN 150, 110 or 169, 111 or 184, 171 or 200, 320, 360, 385, and 418.

3. **General Education: 27 credits**
   COM 459; ENG 100, 209 or 210 or 225, 316; MATH 115;Hawaii Emphasis; Global Multicultural Perspective; HUM 400; PHIL 323; PSY 100 or SOC 100; SP 151 or SP 251 or COM 130 or COM 145.

4. **Co-op Project or Elective: 3 credits**
   A 3-credit BUS 393v cooperative ed course or elective.

ABIT Graduation Requirements *(cont.)*

5. **Capstone Course: 6 credits**
   BUS 495 and 496.

6. **Natural Science: 4 credits**
   Four credits including a lab.

7. **Writing Intensive: 12 credits**
   Minimum of 12 credits of writing intensive courses at the 100-level or higher: at least 3 credits in 100-299 level courses, and at least 6 credits in 300-level or higher.

8. **Minimum of 121 non-repeated qualifying credit hours**
   ABIT majors are required to earn a letter grade *(e.g., A,B,C, etc.)* in all upper division courses required for the ABIT program.

9. **Grade Point Average**
   At least a 2.0 UH Maui College cumulative GPA, as well as a 2.5 GPA in courses required for the ABIT major. Grade C or better is required in all upper division courses applied to the ABIT degree.

10. **Graduation Requirement**
    All lower division requirements (61-63 credits), a minimum of 45 upper division credits, plus 15 elective credits (100-400 level) for a total of 121-123 credits.

    To be awarded the BAS degree, students must complete an Application for Graduation form obtained from Student Services. *See Academic Calendar for deadline.*

11. **Residency Requirement**
    A minimum of 30 credit hours must be taken at UH Maui College and a minimum of 8 upper division courses *(24 credits)* in Business or Information Technology including the Capstone course.

12. **Lower Division Electives: 9 credits**
    Students wishing to pursue graduate studies should consider taking Calculus path as lower division electives.

Applied Business & Information Technology

The Applied Business & Information Technology (ABIT) program, leading to a baccalaureate degree, offers options to students seeking preparation in small to mid-sized business management, information technology, and related or integrated career opportunities. The mission of the program is to prepare graduates to be productive professionals who can make responsible business decisions and use information technology wisely in a changing world. The curriculum emphasizes business and stresses the effective use of information technology. The program also includes a strong interdisciplinary liberal arts program with courses in the humanities, social sciences, English, communication, and mathematics.

Although this degree can be earned in four years taking 15-17 credits per semester, students taking a lighter load will take longer to complete the requirements. Students interested in the ABIT program are encouraged to contact the ABIT counselor, program coordinator, or faculty member about program requirements. *Only courses numbered 100 or above, and taken with a letter grade, may be applied to the ABIT degree; and for upper division courses only those with grade C or better may be applied.*

Contact Program Coordinator, Dr. Debasis Bhattacharya, at 984-3619 or by email at debasisb@hawaii.edu for more information.

Requirements for Certificate of Competence (CO) in Data Science and Machine Learning: 15 credits
BUS 310(3), ICS 173(3), ICS 320(3), ICS 435(3), and MATH 115(3).

Lower division requirements for ABIT Bachelor of Applied Science (BAS) Degree: 61-63 credits

Full-time lower division students would take courses in this sequence:

Freshman Year (Fall)	Credits	Freshman Year (Spring)	Credits
ICS 101 or BUSN 150	3	ECON 130 Principles of Economics: Microeconomics	3
ECON 131 Principles of Economics: Macroeconomics	3	PSY 100 or SOC 100	3
ENG 100 Composition I	3	ENG 209 or ENG 210 or ENG 225	3
Global Multicultural Perspective elective	3	Hawaii Emphasis elective	3
Lower Division elective	3	Lower Division elective	3
	15		15

Sophomore Year (Fall)	Credits	Sophomore Year (Spring)	Credits
ACC 201 Introduction to Financial Accounting	3	ACC 202 Intro to Managerial Accounting	3
ICS 110 Introduction to Computer Programming, or ICS 169 Introduction to Information Security	3	BLAW 200 Legal Environment of Business	3
		ICS 111 Introduction to Computer Science, or ICS 184 Introduction to Networking	3-4
SP 151 or 251, or COM 130 or 145	3	ICS 171 Computer Security, or ICS 200 Web Technology	3
MATH 115 Introduction to Statistics & Probability	3	Lower Division elective	3-4
Natural Science elective with lab	4		15-17
	16		

Upper division transfers - Completion of 60 college-level credits (junior standing) including 8 courses from this list:
ENG 209 or 210 or 225; ICS 101 or BUSN 150; ACC 201 & 202; ECON 130 & 131; MATH 115; SP151 or SP251 or COM 130 or COM 145.

Upper division requirements for ABIT Bachelor of Applied Science (BAS) Degree: 60 credits

Accounting 300(3)
Business 310(3), 320(3), 495(3), 496(3)
Business 393v or Elective(3)
Communication 459(3)
ICS 320(3), 360(3), 385(3), 418(3)
Management 310(3)
Marketing 300(3)
Philosophy 323(3), and Humanities 400(3)
English 316(3) and Electives(12)

Full-time upper division students would take courses in this sequence:

Junior Year (Fall)	Credits	Junior Year (Spring)	Credits
ACC 300 Intermediate Financial Accounting I	3	BUS 320 Entrepreneurship	3
ICS 320 Introduction to Info Systems & E-Commerce	3	ICS 360 Database Design and Development	3
MGT 310 Principles of Management	3	ICS 385 Web Development and Administration	3
MKT 300 Principles of Marketing	3	ENG 316 Advanced Research Writing	3
Elective	3	Elective	3
	15		15

Senior Year (Fall)	Credits	Senior Year (Spring)	Credits
BUS 310 Statistical Analysis for Business Decisions	3	BUS 393v Cooperative Ed, or Elective	3
BUS 495 ABIT Capstone I	3	BUS 496 ABIT Capstone II	3
ICS 418 Systems Analysis and Design	3	COM 459 Intercultural Communication II	3
HUM 400 Changes & Choices	3	PHIL 323 Professional Ethics	3
Elective	3	Elective	3
	15		15

Tuition and Fees: *A tuition differential exists for upper division courses numbered 300 or higher. See Tuition and Fees section.*

Bachelor of Applied Science: Engineering Technology

The Bachelor of Applied Science (BAS) degree in Engineering Technology (ENGT) provides curriculum in electronics, computers, optics, remote sensing, and other technologies used in industry on Maui, throughout the State of Hawai'i, and worldwide.

ENGT Admission Requirements

For admission to the UH Maui College Engineering Technology program, students must first meet the UH Maui College admission requirements. Admission to UH Maui College does not guarantee admission to the ENGT program.

1. A student may apply for admission as a classified student in the ENGT program upon successful completion of one of the following admission requirements:
   a. Completion of the UH Maui College BAS path for the AS degree in Electronic & Computer Engineering Technology (ECET) with a cumulative GPA of 2.5 or higher in all courses attempted; or
   b. Completion of an Associate in Arts (AA), Associate in Applied Science (AAS), or Associate in Science (AS) from an accredited institution with a cumulative GPA of 2.5 or higher in all courses attempted, and completion (or approved equivalent for) coursework of the BAS path for the Electronic Engineering Technology (ECET) AS degree from an accredited institution.

2. A student may apply for admission as a provisional student in the ENGT program upon successful completion of the following admission requirements:
   a. Completion of 40 or more transferable semester credits from an accredited institution with a cumulative GPA of 2.5 or higher in all courses attempted. Classified status will be assigned with completion of the BAS path for the Electronic and Computer Engineering Technology (ECET) AS degree course requirements (or approved equivalent coursework from an accredited institution).
   b. Approval of ENGT Committee.

ENGT Graduation Requirements

1. **BAS path to ENGT in the ECET program: 60-61 credits**

   Completion of the BAS path of AS requirements in the ECET program (or approved equivalent coursework from an accredited institution).

2. **Engineering Technology Upper Division Coursework: 39 credits**

   ETRO 305, 310, 315, 320, 340, 350, 360, 450, 455, 460 and 470.

3. **Engineering Technology General Education: 19 credits**

   PHYS 219 & 219L, MATH 241, PHIL 301 or 323, ENG 316, HUM 400, and COM 459.

4. **Capstone Course: 6 credits**

   ETRO 497 and 498 are to be taken the last two semesters with approval of the ENGT Committee.

5. **Minimum of 124-125 qualifying credit hours**

   ENGT majors are required to earn a letter grade (e.g., A,B,C, etc.) in all courses required for the ENGT program.

6. **Grade Point Average**

   At least a 2.0 UH Maui College cumulative GPA, as well as a 2.5 GPA in courses required for the ENGT major. Grade C or better is required in all upper division ENGT courses.

7. **Graduation Requirement**

   To be awarded the BAS ENGT degree, students must complete an Application for Graduation form obtained from Student Services. *See Academic Calendar for deadline.*

8. **Residency Requirement**

   A minimum of 30 credit hours must be taken at UH Maui College and a minimum of 8 upper division courses (24 credits) in Engineering Technology including the ENGT Capstone course.

Engineering Technology

The Engineering Technology (ENGT) program, leading to a baccalaureate degree, offers options to students seeking preparation in engineering technology, electronics, optics, and remote sensing. The mission of the program is to prepare graduates to be productive professionals who can make meaningful contributions to industry on Maui and throughout Hawai'i and the world. The curriculum emphasizes engineering technology and stresses the effective use of integrated electro-optical hardware and software systems. The program also includes strong interdisciplinary general education with courses in the humanities, social sciences, communication, mathematics, and English.

While this degree may be earned in four years taking 14-18 credits per semester, students taking fewer credits per semester will take longer to complete the requirements.

The Electronic & Computer Engineering Technology (ECET) AS degree is the required lower division pathway to the Bachelor of Applied Science (BAS) in Engineering Technology (ENGT). Only courses numbered 100 or above, and taken with a letter grade, may be applied to the ENGT degree; for the upper division courses listed here, only those with grade C or better may be applied.

The Engineering Technology program admits students only in the fall semester and in the odd years, (e.g.,Fall 2021).

❧ Contact Dr. Elisabeth Dubuit, at 984-3706 or by email at edubuit@hawaii.edu for more information.

Requirements for the ENGT Bachelor of Applied Science (BAS) Degree: 124-125 credits

All ECET program AS degree courses (60-61), plus:

Electronics 305(4), 310(3), 315(3), 320(4), 340(4), 350(3), 360(4), 450(4), 455(4), 460(3), 470(3), 497(3), 498(3)	Communication 459(3)
	Humanities 400(3)
Physics 219/L(2,1)	Mathematics 241(4)
Philosophy 301 or 323(3)	English 316(3)

Full-time upper division students would take courses in this sequence:

Junior Year (Fall)	Credits	Junior Year (Spring)	Credits
ETRO 305 Engineering Computing	4	ETRO 315 Project Management	3
ETRO 310 Applied Robotics	3	ETRO 350 Power Systems	3
ETRO 340 System Integration	4	ETRO 360 Signals and Systems	4
ENG 316 Advanced Research Writing	3	PHIL 301 Ethical Theory or PHIL 323 Professional Ethics	3
MATH 241 Calculus I	4	PHYS 219/L Physics for Engineering Technology and Lab	2,1
	18		16

Senior Year (Fall)	Credits	Senior Year (Spring)	Credits
ETRO 320 Intermediate Optics	4	ETRO 455 Remote Sensing	4
ETRO 450 Signal Processing	4	ETRO 460 Control Systems	3
ETRO 497 Capstone Project I	3	ETRO 470 Intro to Communication Systems	3
HUM 400 Changes & Choices	3	ETRO 498 Capstone Project II	3
	14	COM 459 Intercultural Communication II	3
			16

Tuition and Fees: *A tuition differential exists for upper division courses numbered 300 or higher. See Tuition and Fees section.*

Bachelor of Applied Science: Sustainable Science Management

The BAS in Sustainable Science Management (SSM) comprises a core curriculum in sustainability science, along with foundational sciences and liberal arts. Courses explore sustainability issues in energy, water, community, and others; analyzing the inter-relatedness of topics through systems thinking and dynamics models; monitoring progress through the use of sustainability indicators; and applying experience via internship and capstone.

The BAS degree is granted to students completing the prescribed four-year program. Only courses numbered 100 and above can be applied toward the degree.

SSM Admission Requirements

Students applying for admission to the SSM program must first meet the UH Maui College admission requirements. In order to declare as an SSM major, students must also complete the following:

1. ENG 100 with grade C or better;
2. MATH 103 with grade C or better, or placement at least MATH 135;
3. BUSN 150 or ICS 101, either with grade C or better;
4. SSM 101 with grade C or better.

SSM Lower Division Requirements

Prior to enrolling in upper division (300+ level) SSM courses, students should first complete lower division requirements that may be accomplished in a number of ways.

New Students - Base Program Path

Students starting at UH Maui College follow the SSM Program Map. While this path is unique to the SSM program, it also meets the requirements of Liberal Arts AA degree pathway.

Transfer & Other Non-New Students

1. **All non-new students**
   All transferring and non-new students are required to meet the SSM lower division requirements in order to qualify for upper division coursework in the SSM program:
   a. MATH 115; and MATH 135 or higher; both with grade C or better;
   b. College chemistry with lab (minimum 4 credits) with grade C or better;
   c. Biology with lab (minimum 4 credits) with grade C or better;
   d. SSM 275 or equivalent with grade C or better.
   e. SSM 201 or OCN 201/201L, either with grade C or better;
   f. SSM 101and 202, both with grade C or better.
   g. Minimum 62 credits in 100+ level coursework.
   Note: Students should complete upper division SSM prerequisites early in their program.

2. **UHMC degree graduates**
   Students who have graduated with a UHMC two-year degree in ASNS Natural Science, AA Liberal Arts, or AA Hawaiian Studies, and have applied as an SSM major, may take one SSM upper division course per semester for up to three semesters, as long as enrolled in 1a-g coursework.

3. **Other degree graduates**
   Students holding a two or four year degree from an accredited institution must have: a) cumulative GPA of 2.5 or higher in their degree work, b) at least 40 hours of transferrable credit, and c) met the above 1a-g requirements of 1 in order to take upper division coursework in the SSM program.

4. **Non-degree students**
   Students who have completed 62 or more credits of 100+ coursework at an accredited institution may apply to take SSM upper division coursework. Non-degree students shall have a) substantially met the SSM lower division requirements set forth in the SSM Program Map, b) achieved grade C or better in all SSM program requirements with a cumulative 2.5 GPA on all transferring credits, and c) met all requirements of paragraph 1a-g.

SSM Graduation Requirements

Students must complete the following in order to graduate with a BAS degree in Sustainability Science Management:

1. Meet all lower division requirements in the SSM Program Map or in paragraph 1a-g.

2. Complete all required upper division coursework on the SSM Program Map, with grade C or better in each required course and with a cumulative GPA of 2.5 for all SSM program requirements. Upper division electives may be any SSM upper division course, or other 300-level or higher course as approved by the program coordinator. Not less than 6 credits of upper division elective credits must be 400+ level courses.

3. A minimum of 30 credits shall be taken at UHMC.

4. Complete six credits of capstone courses (SSM 495-496) over not less than two semesters with grade C or better.

5. Complete not less than 15 credits of writing intensive (WI) courses with grade C or better and at least 6 credits shall be in courses of 300-level or higher.

6. All SSM alpha required courses must be taken for a letter grade. A maximum of 6 credits in other coursework may be achieved via Prior Learning Assessment.

7. Complete not less than 124 credit hours of coursework in support of the BAS degree. Only courses numbered 100 and above may apply to this degree requirement.

8. Submission of a completed Application for Graduation from UHMC.

Sustainable Science Management

The Sustainable Science Management (SSM) program, leading to a baccalaureate degree, provides a variety of options to students seeking employment in the rapidly expanding field of sustainability. Coursework covers important contemporary topics including but not limited to energy, ecology, business and management, water and wastewater, agriculture, waste-management, economics, policy, the built environment, and social science; all in the context of case studies in the larger interdisciplinary field of sustainability. Students develop systems thinking and analytical skills, which will enable graduates to apply learned principles to the changing and complex issues of the future. The program is designed to equip students with the fundamental skills necessary to bridge disciplines and to facilitate sustainable solutions and operations for any organization or community.

✋ Contact the program coordinator, Tim Botkin, at 984-3322 or by email at botkin@hawaii.edu for more information.

Full-time lower division students would take this sequence: 64-65 credits

First Semester (Fall)	Credits	Second Semester (Spring)	Credits
SSM 101 Sustainability in a Changing World	3	SSM 275 Basic Energy Production	3
BUSN 150 or ICS 101	3	CHEM 162 and 162L, or GIS 150	4
CHEM 151/151L or CHEM 161/161L	3,1	ECON 130 or 131	3
PSY 100 Survey of Psychology	3	MATH 115	3
ENG 100 Composition I	3	Foundations Global elective [2] - *either FGA or FGC*	3
	16		16

Third Semester (Fall)	Credits	Fourth Semester (Spring)	Credits
SSM 201, or OCN 201 and 201L [1]	3-4	SSM 202 Sustainable Island Communities	3
BIOL 171/171L Intro Biology I and Lab	3,1	BLAW 200, or MATH 203 or 205 → 241 [3]	3
ACC 201 Introduction to Financial Accounting	3	COM 215/PSY 253 Conflict Resolution & Mediation	3
HWST 107 or 207, or HIST 284	3	ZOOL 200/L Marine Biology and Lab	3,1
MATH 135 Pre-Calculus: Elementary Functions	3	ENG 210 Research Writing	3
	16-17		16

Sustainable Technology (CO): 11-12 credits - *See curriculum on Construction Technology program map.*

Upper division requirements for SSM Bachelor of Applied Science (BAS) Degree: 60 credits

Sustainable Science Management 301(3), 302(3), 375(3), 392v(3), 401(3), 402(3), 403(3), 422(3), 495(3), 496(3)
Management 310(3)
Philosophy 323(3)
Aqua 362/362L(2,1)
Biology 424/424L(2,1)
Humanities 400(3)

Communication 459(3)
English 316(3)
Upper division program electives(3,3,3)[4]
    Any upper division SSM course not already required;
    AQUA 466/466L; OCN 351/351L; or other elective approved by program coordinator

Full-time upper division students would take courses in this sequence:

Junior Year (Fall)	Credits	Junior Year (Spring)	Credits
SSM 302 Environmental Health	3	SSM 301 Sustainable Assessments and Indicators	3
SSM 375 Renewable Energy Conversions, or elective	3	SSM 392v SSM Internship	3
AQUA 362/362L Aquaculture and Mariculture and Lab	2,1	SSM 402 Water Resources Management	3
MGT 310 Principles of Management	3	PHIL 323 Professional Ethics	3
ENG 316 Advanced Research Writing	3	Upper division program elective[4]	3
	15		15

Senior Year (Fall)	Credits	Senior Year (Spring)	Credits
SSM 422 Sustainable Systems Thinking	3	SSM 401 Environmental Law, Policy, and Justice	3
SSM 495 SSM Capstone I	3	SSM 403 Renewable Energy Integration, or elective	3
HUM 400 Changes & Choices	3	SSM 496 SSM Capstone II	3
Upper division program elective[4]	3	BIOL 424/424L Protected Species Management and Lab	2,1
Upper division program elective[4]	3	COM 459 Intercultural Communication II	3
	15		15

Tuition and Fees: *A tuition differential exists for upper division courses numbered 300 or higher. See Tuition and Fees section.*

[1]*Note: OCN 201 and 201L are required for students focusing on marine studies in their upper division coursework.*
[2]*Note: Foundations Global Multicultural Perspectives: Choose one course (3 credits) from either of two groups (FGA, FGC).*
[3]*Note: Calculus is a prerequisite for SSM 403 and other upper level courses.*
[4]*Note: At least 6 credits of electives shall be 400-level courses. Select upper division eleective credits to achieve at least 124 credits total for the degree, not less than 60 of which must be in upper division.*