

University of Hawaii Maui College Program Learning Outcomes

The following program learning outcomes have been approved by the various program advisory boards. Each program learning outcome is assessed twice in a five-year review cycle by the program. The results of the assessment is reviewed by their advisory board and reported in annual program reviews.

Applied Business and Information Technology (BAS)

1. Apply knowledge of essential business disciplines including accounting, economics, finance, law, management, and marketing, and use business research methods to analyze information in order to develop solid business plans and strategies, and make efficient business decisions.
2. Use leadership and interpersonal skills to promote business ethics, values, and integrity related to professional activities and personal relationships.
3. Demonstrate knowledge of operating system, word processing, spreadsheet, presentation software, database management, computer troubleshooting, web development, and e-commerce.
4. Apply knowledge of graphical user interface (GUI) and event-driven programming (EDP) to designing, creating, and testing computer programs.
5. Apply knowledge of e-commerce by designing, creating, and testing appropriate e-commerce sites and development tools.
6. Apply critical thinking skills to evaluate information, solve problems, and make decisions.
7. Use information retrieval and technology.
8. Apply quantitative reasoning to enhance independent or group decision-making skills.
9. Communicate effectively with other utilizing appropriate forms of oral and written communication methods including multimedia presentations that apply information technologies and serve particular audiences and purposes.

Accounting

1. Demonstrate satisfactory proficiency in the basic fundamental principles of financial and managerial accounting following generally accepted accounting principles with special emphasis on the elements of the accounting cycle; the rules of debit and credit, journalizing and posting, trial balances, adjustments, worksheets, financial statements, and the closing process.
2. Demonstrates satisfactory proficiency in the basic principles procedures, terminology, and application of income and payroll tax laws.
3. Demonstrates satisfactory proficiency in hands-on accounting skills for maintaining accounting records using commercial accounting software, and the use of spreadsheets to solve accounting problems.

Administration of Justice

The Administration of Justice program's Student Learning Outcomes reflect its mission to be recognized by the community for preparing self-confident, competent graduates who are able to perform effectively in a changing environment. They are as follows:

1. Demonstrate the use of critical observation skills and decision-making within the legal/ethical parameters of justice professions.
2. Assess and respond appropriately to situations containing potential conflicts, hazards and threatening situations.
3. Demonstrate the maintenance of physical and mental fitness, utilize stress management techniques and maintain a drug-free lifestyle.
4. Perform independently and inter-dependently to accomplish shared professional outcomes.
5. Demonstrate the ability to interact with the public and co-workers in ways that effectively support “justice for all.”

Agriculture and Natural Resources

1. Use basic business principles to manage projects or design a horticultural business enterprise.
2. Recommend cultural practices, solve problems, plan projects, and cultivate horticultural crops in a sustainable manner based on sound biological and technological principles.
3. Explain the relationships between agro-ecosystems, economics, human culture, and natural environments.
4. Design gardens that demonstrate aesthetic principles. (Landscape & Horticulture only)

Allied Health – Dental

1. Demonstrate their cumulative knowledge and skill by successfully passing both written and clinical dental hygiene board examinations.
2. Provide comprehensive dental hygiene care to promote patient/client health and wellness using critical thinking and problem solving in the provision of evidence-based practice.
3. Provide accurate, consistent, and complete documentation for assessment, and evaluation of dental hygiene services.

Allied Health – Nursing

1. A competent nurse’s professional actions are based on core nursing values, professional standards of practice, and the law.
2. A competent nurse develops insight through reflective practice, self-analysis, and self care.
3. A competent nurse engages in ongoing self-directed learning and provides care based on evidence supported by research.
4. A competent nurse demonstrates leadership in nursing and health care.
5. A competent nurse collaborates as part of a health care system.
6. A competent nurse practices within, utilizes, and contributes to the broader health care system.
7. A competent nurse practices client-centered care.
8. A competent nurse communicates effectively.

9. A competent nurse demonstrates clinical judgment/clinical thinking in the delivery of care of clients while maintaining safety.

Auto Body Repair and Painting

1. Explain and describe both personal and public health and safety issues as it pertains to the products used in the auto collision repair and auto refinishing industry. Describe in general the effect of these products have on themselves, co-workers and the environment. Demonstrate proper personal and public safety precautions to be utilized when using these products. Will be able to identify hazardous products and describe the proper methods of disposal for different types of hazardous waste.
2. Describe and demonstrate proper and safe usage as pertaining to the hand and power tools and equipment needed to complete the required tasks for auto body sheet metal repair for the return both exterior and interior sheet metal of a vehicle to a like new condition.
3. Employ required math and reading skills to be able to complete vehicle repairs as described from a work order and also written specifications when using vehicle service information or a vehicle dimensioning manual, obtained either as a hard copy or on line. Be able to communicate both written and verbally with fellow employees and other shop personnel.
4. Demonstrate the proper MIG and resistance spot welding skills required to achieve a weld that is equal to a factory specifications for a given type of repair, in a safe manner. Be able to identify and correct MIG and resistance spot welds that are not compliant with factory recommendations for acceptable repairs.
5. Display the appropriate refinishing skills required to achieve a vehicle topcoat (finish) that is equal to factory refinishing specifications. Describe the health and safety issues surrounding the use and disposal of refinishing and related materials

Automotive Technology

1. To be able to write customer repair orders and estimates
2. To be able to communicate to customer management, parts person and other technicians.
3. To be able to use the computer to retrieve information.
4. To Demonstrate the ability to Diagnose, service and repair a automotive vehicle.
- 6.

Business Careers

1. Use leadership and interpersonal skills to promote business ethics, values, and integrity related to professional activities and personal relationships
2. Analyze and explain basic business transactions and financial reports.
3. Develop a sense and appreciation of Entrepreneurship.

Business Technology

1. Program graduates are able to select and apply appropriate resources to address the challenges of work and life. These include: time, money, material, facilities and human resources.
2. Program graduates are able to apply interpersonal and leadership skills in their personal life and in the workplace. They are able to work as part of a team and can participate effectively in culturally diverse groups.
3. Program graduates are able to identify information needs in an organization, obtain, organize and process various forms of data utilizing relevant computer technology and software to provide meaningful information to achieve business goals.
4. Program graduates are able to understand, utilize and improve organizational and technological systems in the workplace. They are able to monitor and correct worker performance, make suggestions to improve products or services or propose alternatives.
5. Program graduates are able to select and apply various forms of technology, including computers and computer software, to business tasks, and to maintain and trouble-shoot problems that arise in day to day operations.

Culinary Arts

1. Apply principles and concepts of quality food purchasing, food and baking preparation, service, and proper use of tools and equipment to produce and serve a variety of professional food items.
2. Apply the basic principles of culinary service, organization, sanitation and safety in a foodservice operation to maintain the optimum health of the consumer.
3. Demonstrate skills in various areas of the culinary hierarchy: human relations, leadership and personnel management, ethical decision making.
4. Discuss the standards of restaurant regulations involving liquor protocol and health and safety regulations.
5. Practice standards in behavior, grooming and dress appropriate to culinary industry professionals.

Early Childhood Education

1. Use knowledge of child development and of individual children to create healthy, challenging learning environments and experiences
2. Build respectful partnerships with children, families, and their communities
3. Observe, document and assess children's development and learning in partnership with families.
4. Build positive relationships and guide children through supportive interactions
5. Plan, implement, and assess learning experiences using appropriate content, concepts, and methods.
6. Base decisions and actions on ethical and other professional standards.
7. Advocate for children and their families within the program.

Electronic & Computer Engineering Technology

1. analyze, design, and implement electro-optic systems, control systems, instrumentation systems, communication systems, computer systems, or power systems;
2. apply project management techniques to electrical/electronic(s) and computer systems;
3. utilize appropriate mathematics at the level of algebra and trigonometry to solve technical problems;
4. demonstrate critical engineering technology skills and experiences such as: making existing technology operate, creating/selecting new technology, troubleshooting, calibrating, characterizing, and optimizing;
5. demonstrate engineer's way of thinking, analyzing technology as systems;
6. demonstrate engineer professional skills such as communication and managing projects;
7. demonstrate proficiency in the general education college core requirements: creativity, critical thinking, oral and written communication, information retrieval, quantitative reasoning;
8. demonstrate a respect for diversity and a knowledge of contemporary professional, societal and global issues; and
9. commit to quality, timeliness, and continuous improvement.

Engineering Technology (BAS)

1. analyze, design, and implement electro-optic systems, control systems, instrumentation systems, communication systems, computer systems, or power systems
2. apply project management techniques to electrical/electronic(s) and computer systems
3. utilize integral and differential calculus, or other appropriate mathematics above the level of algebra and trigonometry to solve technical problems
4. demonstrate critical engineering technology skills and experiences such as: making existing technology operate, creating/selecting new technology, troubleshooting, calibrating, characterizing, and optimizing
5. demonstrate engineer's way of thinking, analyzing technology as systems
6. demonstrate engineer professional skills such as communication and managing projects
7. demonstrates proficiency in the general education college core requirements: creativity, critical thinking, oral and written communication, information retrieval, quantitative reasoning
8. demonstrate a recognition of the need for, and an ability to engage in lifelong learning
9. demonstrate an ability to understand professional, ethical and social responsibilities
10. demonstrate a respect for diversity and a knowledge of contemporary professional, societal and global issues
11. commit to quality, timeliness, and continuous improvement

Fashion Technology

1. Demonstrate satisfactory proficiency in fundamentals of constructing a garment including terminology, tools and supplies; pattern identification; taking and calculating measurements; pattern alteration, layout and cutting; sewing construction and garment fitting.
2. Demonstrate satisfactory understanding of design concepts and proficiency in conveying design ideas onto paper including identifying and sketching design details accurately and in proportion to the figure or object.
3. Demonstrate satisfactory proficiency in principles of pattern making, including terminology, use of tools, and process of pattern development.
4. Demonstrate satisfactory proficiency in terminology, principles and skill sets relevant to special topic courses.
5. Demonstrate satisfactory proficiency in the safe operation of sewing machines and equipment.
6. Demonstrate satisfactory understanding of textile characteristics and end use.
7. Demonstrate satisfactory understanding of principles of starting a small business.

Hospitality and Tourism

1. Demonstrate the key functions required to successfully manage and lead a hospitality organization (i.e. planning, organizing, coordinating, staffing, supervising, financial analysis, sales/marketing, etc.).
 - Create, interpret, and analyze budgets and other operational reports (using a spreadsheet program such as Excel) to make recommendations and decisions to improve organizational performance
 - Communicate effectively with diverse populations using visual, written, and oral skills required of daily activities in hospitality operations
 - Develop and manage a work schedule
 - Prepare and analyze financial statements
 - Develop, use, and update procedures, criteria, and recommendations for equipment and supplies used in daily hospitality operations
 - Follow and develop standards of operation (SOP) for safety/security in the hospitality industry
 - Apply the principles of human resource management within the context of industry and organizational standards
 - Identify levels of proficiency required for employment in the hospitality industry
 - Communicate host culture knowledge
 - Work independently and interdependently in a team setting
 - Demonstrate leadership skills in team assignments
2. Apply critical thinking skills and decision-making skills when analyzing hospitality related issues
 - Assess a workplace issue, identify business strategies, develop plans for implementation, and evaluate implications of decisions
 - Analyze information and apply quantitative reasoning methods appropriately to solve problems
 - Analyze internal and external factors that influence the hospitality industry

- Describe the interrelationships of hospitality-related service industries
- Assess, interpret, analyze, and evaluate information using current technology (hardware and software) to make recommendations and solve issues in the hospitality and tourism environment

Human Services

1. Demonstrate the attitudes, skills and knowledge base of client-centered, evidence-based helping strategies with a variety of populations in diverse human service settings.
2. Develop interpersonal skills that build appropriate, collaborative, respectful relationships with fellow students, clients and professionals in the community
3. Identify vulnerable populations and the social conditions that contribute to their vulnerability; consider advocacy strategies to help alleviate those conditions.
4. Develop self-awareness of one's own values, interpersonal interaction styles, strengths and challenges that will impact the development of professionalism.

Sustainable Science Management (BAS)

1. Examine ways in which the features and functions of multiple systems are interconnected, and explain how one system can be optimized without degrading other systems or depleting natural resources.
2. Investigate, discover and summarize federal, state, local and industry codes, standards, laws, regulations, and guidelines.
3. Assess the feasibility of investing in sustainability measures using simple payback, return on investment, and life cycle costing techniques.
4. Describe the unique sustainability challenges faced by island communities
5. Identify, outline and illustrate the fundamentals of existing and emerging technologies in energy production, distribution and management; water supply; wastewater treatment; and waste management; their applications, processes and requirements.
6. Appraise, evaluate, summarize, and explain the economic, social, cultural, political, and scientific features that make a system, process, practice, or business sustainable and consolidate that information into a sustainability profile.
7. Propose and justify creative solutions to sustainability challenges that are scientifically sound.
8. Demonstrate skills related to managing sustainability projects including defining scope, selecting achievable goals, evaluating ethical implications, working with diverse teams, making presentations, and preparing reports.

Liberal Arts Program

1. Demonstrate knowledge of natural systems and environmental issues.
2. Demonstrate knowledge of the multiple dimensions of Hawai'i.
3. Demonstrate knowledge of the multiple dimensions of the Asia/Pacific region.
4. Demonstrate knowledge of the diversity of human conditions and cultures in local and global communities.
5. Demonstrate knowledge of the individual in relation to behavior, ideas and values.
6. Demonstrate knowledge of techniques of creative expression and its evaluation.

College-wide Academic Student Learning Outcomes

Standard 1 - Written Communication

Write effectively to convey ideas that meet the needs of specific audiences and purposes.

Standard 2 - Quantitative Reasoning

Synthesize and articulate information using appropriate mathematical methods to solve problems of quantitative reasoning accurately and appropriately.

Standard 3 - Information Retrieval and Technology

Access, evaluate, and utilize information effectively, ethically, and responsibly.

Standard 4 - Oral Communication

Practice ethical and responsible oral communications appropriately to a variety of audiences and purposes.

Standard 5 - Critical Thinking

Apply critical thinking skills to effectively address the challenges and solve problems.

Standard 6 - Creativity

Able to express originality through a variety of forms.