

## Kulehon Kumunidát Guáhan

# Five Year Distance Education Strategic Plan

2015-2020

#### Introduction

The Mission of Guam Community College: Guam Community College is a leader in career and technical workforce development, providing the highest quality, student-centered education and job training for Micronesia.

To further this mission, Guam Community College (GCC) has set a goal to be a provider of Distance Education (DE) to its students. Distance education is a vehicle through which the College can help students in Guam and Micronesia with the attainment of their academic goals, by providing high quality accredited programs in career and workforce development in an online format.

GCC has developed a five-year Distance Education Strategic Plan to guide the institution's distance education efforts. The impact of rapid change in educational technologies, and increased need for technological support from the College require continual assessment. This strategic plan takes into consideration the various factors that impact DE, such as academic planning and technology services that enable the promotion of growth, effectiveness, and efficiency of robust DE implementations.

The DE Strategic Plan will allow the College to carefully determine resources needed to provide access to students. Student, faculty, and staff readiness for DE will be assessed, with measures put in place to address any gaps. In this strategic plan, all mention of staff includes administrative, operational, and technical staff.

The college has begun incremental implementation of a broad range of DE courses in two distinct categories, as defined in DE Policy 340:

Hybrid – This course type is offered in such a manner that 50% of the classes are held on campus (traditional face-to-face) while 50% are held fully online.

Fully Online – Course is offered fully online with no expectation for the student to physically enter the campus.

GCC realizes the opportunity DE affords students seeking flexible learning options. A non-scientific poll taken on the College website in 2013 showed 87% of respondents selecting online courses at GCC due to the convenience of taking courses on a flexible schedule. GCC students also need increased access to higher-level courses. Fully online or even hybrid courses will reduce the burden on current institutional physical infrastructure such as parking and computer labs, yet still avail GCC students with access to courses. Implementation of sustainable DE offerings has the benefit of curbing attrition, with a consequent increase in retention, persistence and completion. Furthermore, a thorough review of business processes and incorporation of additional automation will strengthen student records management, improve student experiences and enhance data acquisition. Additionally, improving the working environment for both faculty and staff will have an overall positive impact on College culture, and will elevate the culture of productivity already present at the College. In order to establish a viable and sustainable Distance Education offering at the College, GCC will establish an academic technology working group that supports DE academic technology needs.

DE at Guam Community College will support the four key institutional goals presented below. Specific DE goals also align with institutional direction. To attain these goals, exceptional effort will be made to address current students' needs, and improve faculty and staff engagement and access to efficient and effective tools. Excellence in online degree programs will attract new students, while excellence in support services will support high levels of student retention.

In order to comply with federal and local regulations governing the quality of Distance Education, GCC must take into account several factors during the planning process. The Distance Education Strategic Plan must

- consider library services to distance learners,
- provide a means for ensuring learner integrity,
- provide appropriate support services for distance learners,
- provide adequate technical resources, faculty and technical staff training, and support services, and
- evaluate its DE course offerings.

Beyond the Distance Education Strategic Plan, GCC must comply with federal and local regulations by investigating, selecting and supporting those tools necessary for the delivery of Distance Education. These include sustainable investment in a course management system and third party tools that support distance education. Going forward, GCC plans to separate online from hybrid and face-to-face (including web-enabled) data in order to best demonstrate that online courses meet academic quality and integrity, as well as engage distance learners in addressing course outcomes. An added benefit of tracking fully online DE students is that the College will be able to address the four key <u>US Department of Education</u> regulatory factors that directly impact DE, including:

- 1. Credit Hour Ensure that GCC DE courses meet the contact hours as outlined by the Accrediting Commission for Community and Junior Colleges (ACCJC)
- 2. Prohibition against Incentive Compensation Ensure that GCC does not provide any commission, bonus, or other incentive payment based directly or indirectly on success in securing enrollments or financial aid to any person or entities engaged in any student recruiting or admission activities or in making decisions regarding the award of student financial assistance
- 3. Misrepresentation Guard against any false, erroneous, or misleading statement made to a student, prospective student, or any member of the public, or to an accrediting agency, a state agency, or Department of Education by the institution, or one of its representatives or persons with whom an institution has an agreement to provide educational programs or marketing, advertising, recruiting, or admissions services
- 4. Gainful Employment Select programs that offer at least one year of training leading to a certificate or degree and preparing students for gainful employment in a recognized occupation. The new metric also looks at the debt-to-income ratio and loan repayment rates.

## Alignment of GCC Institutional Strategic Master plan with DE goals.

As the college develops and strengthens Distance Education, the alignment of DE goals with institutional priorities remains essential. As part of the strategic planning process, a DE taskforce has been formed consisting of faculty and administrators. In collaboration with Ellucian higher education technology consultants, the taskforce provided input on DE goals and direction. The tasks associated with achieving these goals were developed and ranked based on feedback from the taskforce and are an aggregate of these rankings. The taskforce developed a five-year DE implementation and assessment plan as part of the strategic plan (Appendix 2). A substantive application to the ACCJC requesting authorization to offer full DE programs is included in the five-year planning process. This will ensure accreditation compliance for the DE program at GCC. A DE pilot project running from Fall 2015 to Spring 2016 was created to provide additional information.

# Institutional Goal 1: Guam Community College will increase student retention and completion

**Purpose:** Strengthen and improve curriculum and educational delivery to provide a student-centered educational experience that fosters retention and completion to prepare our students for engagement in a global workforce.

Excellence in teaching will be achieved by providing a rigorous professional development program. All faculty members engaged will be provided the opportunity to participate in a professional development program focused on best practices that encompasses skills, knowledge and pedagogy for online learning in an ever-changing digital age. Online courses will meet the institutional requirements for certification of excellence as a result of participation in an internal review process. Courses that attain approval will serve as models for the development and continuous improvement of all Guam Community College online courses.

The responsibility to develop a professional development program and all institutional requirements for certification related to distance education will be folded into the Comprehensive Professional Development Plan of the college. To meet the challenge of an anytime/anyplace educational model, the college will expand delivery options to include virtual collaborations, mobile technologies, digital learning modules and e-textbooks.

Distance Education will support the institutional goal of increasing retention and completion by pursuing the following goals:

- **DE Goal 1.1:** Provide a full range of student services online for both on-campus and off-campus students
- **DE Goal 1.2:** Provide the organizational structure that will support active student advising and career counseling
- **DE Goal 1.3:** Develop online degree programs that will meet current industry needs

# Institutional Goal 2: Guam Community College will foster an environment that is conducive to learning

**Purpose:** Transform the campus into a facility conducive for learning and teaching with a genuine sense of family spirit and dialogue among employees who are committed to student access and student success.

Excellence in teaching in traditional classrooms will be achieved by providing faculty with technology tools within the classroom that will enhance the learning experience through innovative use of

communication, collaboration, and presentation tools. Additionally, instructional technologies that are discipline specific will be available in designated classrooms and student computer labs. The reliance on innovative technologies requires that rapid technology support is provided to resolve technical issues. Excellence in the provision of an environment conducive to learning will be accomplished by pursuing the following goals:

- **DE Goal 2.1:** Provide faculty with innovative tools, internet access and multimedia presentation capabilities within each classroom, to support teaching and learning, communication, and collaboration.
- **DE Goal 2.2:** Provide a Learning Management System (LMS), a web-based software application for the administration, documentation, tracking, reporting and delivery of electronic educational technology courses or training programs available to all classes (online or Face-to-Face).
- **DE Goal 2.3:** Provide faculty a systematic and ongoing professional development program that will include technology training, online course development, and pedagogy.
- **DE Goal 2.4:** Apply institutional standards and best practices that will serve as online course development models.
- **DE Goal 2.5:** Increase the use of digital material in all courses including no cost and low cost solutions
- **DE Goal 2.6**: Provide MIS technical staff a systematic and ongoing professional development program that will include DE-specific technical training to support DE students, faculty, and staff.

## Institutional Goal 3: Guam Community College will support an environment of improvement and accountability

**Purpose:** Enhance the existing integrated planning, review, and evaluation processes that provide for the allocation of resources based on assessment results and college-wide priorities, in order to boost improvement and accountability.

Excellence in technology support will be provided by the combined efforts of Academic Technologies and the MIS departments with collaboration from the College Technology Committee. This will include support for classroom technologies, online teaching and learning, in addition to administrative functions and services for all students, faculty, and staff supporting distance education. Faculty, staff, and students must be proficient in the technologies that support their learning. Training will be provided for a full range of administrative and productivity applications. The growth of online learning requires a full range of student support services available to students that may not have access to the campus. Excellence in student services will be provided online utilizing "online support services" that will avail course enrollments, advising, library access, tutoring services (if needed) and access to textbooks from the bookstore.

Creating a culture of improvement and accountability will be accomplished by pursuing the following DE goals:

- **DE Goal 3.1:** Provide a high level of technological reliability and technical support.
- **DE Goal 3.2:** Establish a separate DE office that provides leadership and oversight through effective policies and procedures for DE.

- **DE Goal 3.3:** Provide the DE office and other technical and support staff and administrators with training, services, and tools needed to facilitate and make DE courses an effective and efficient means of learning.
- **DE Goal 3.4:** Provide training for faculty, staff and administrators on the use of administrative and productivity technologies and applications.
- **DE Goal 3.5:** Evaluate effectiveness of services provided to DE students and faculty.

# Institutional Goal 4: Guam Community College will institute measures to increase visibility and global engagement

**Purpose:** Promote the Guam Community College brand to achieve regional, national, and international recognition.

Expansion of the GCC institutional brand within Guam, throughout Micronesia, and internationally will be coordinated by the Office of Communication and Promotion. The development of appropriate distance education marketing materials and active marketing strategies will be supported by the individual program departments. Furthermore, GCC already has a strong partnership with local industry leaders and this will continue to be an advantage when rolling out distance education marketing campaigns for programs that target working populations seeking to improve their job prospects. Of keen interest to the college is an ability to engage the adult education population, and a concerted marketing effort is needed to not only reach this demographic, but also to relay to them the value of a distance education program.

**DE Goal 4.1:** Provide a structured marketing and communication plan for distance education courses and programs.

## **Comparing Resource Needs for GCC Courses Types**

As the college seeks to review service needs for DE courses, it is important to look at functions/services that are deemed essential for the course type being offered. In addition, as GCC expands into the DE market, the types of programs that are developed will require various levels of support for the students, faculty members and administrative staff. The chart below provides a list of services that will enable efficient course delivery and student and faculty support services. The selected options give a general view of service needs for each type of DE program; however once GCC selects programs/courses then the appropriate service delivery will be determined. Some services may be optional for a given course type and are noted as being possible depending on the course and instructor teaching the given section.

Service	Web-Enabled	Hybrid	Fully Online
LMS	Possible	✓	✓
Faculty training	✓	✓	<b>√</b>
Student training	Possible	<b>✓</b>	<b>√</b>
AT support	<b>√</b>	<b>✓</b>	<b>√</b>
MIS support	✓	✓	<b>√</b>
Advising /Counseling Services	✓	✓	<b>√</b>
Tutoring Services	✓	✓	<b>√</b>
Health Services	✓	✓	Possible
Tutoring	✓	✓	<b>√</b>
Placement testing	✓	✓	<b>√</b>
Proctoring Services	<b>√</b>	Possible	<b>√</b>
Software acquisition	<b>√</b>	<b>✓</b>	<b>√</b>
ADA compliance	<b>√</b>	<b>✓</b>	<b>√</b>
Lecture capture services	Possible	Possible	<b>√</b>
Onsite computer lab utility	Possible	<b>√</b>	Possible
Student ID services	✓	✓	<b>√</b>
Onsite parking	✓	✓	Possible
Onsite wireless utility	✓	<b>√</b>	Possible
Remote Library support (24-7 library access)	Possible	<b>√</b>	<b>√</b>
Physical Classroom Utility	✓	✓	<b>√</b>
Online course evaluation	5.	✓	<b>√</b>
Onsite computer lab utility	✓	<b>✓</b>	<b>√</b>
Helpdesk support	Possible	<b>✓</b>	<b>√</b>
Remote bookstore support		<b>✓</b>	<b>√</b>
Virtual student authentication		<b>✓</b>	<b>√</b>
Helpdesk		<b>✓</b>	<b>√</b>
Fully online student support services (Admissions, Registration, FA, etc.)		6.	<b>√</b>

## **Course Development and Faculty Training**

All faculty would benefit greatly from the Learning Management System (LMS) training; however, faculty teaching fully online or hybrid courses will be considered first priority. Faculty should plan for training in advance as it can take between 8-12 months to train faculty in LMS use, online pedagogy and course development.

Web enhanced (aka blended learning) classes using GCC's LMS will also be used as a method to introduce faculty to DE tools while still working in a familiar class environment. Faculty will go through LMS training to employ the use of the LMS in their class. Faculty will have an opportunity to utilize web enhanced capabilities in their classes.

As part of the faculty training research process, GCC was able to determine the online readiness of faculty members by taking a Faculty Online Readiness Survey. As part of the strategic planning process, preliminary data obtained from the survey indicated that 16% of faculty members responded that they had taught at least one course online (11/67). 89.3% of the respondents (50/56) had not received any formal training for online instruction, and none indicated that they had participated in mandatory training. Only 1.8% of the respondents indicated that they were trained using a quality standard for teaching online (1/56) and they have adopted that standard in the course. About 77% of the respondents stated that they have never used an LMS, whereas the other 23% have used LMS such as Moodle and Blackboard. Of the faculty who had taught online, about 14.3% had used Blackboard and 8.9% used Moodle. Seventeen faculty members who responded to the survey stated that they have developed online courses with varying levels of support. Interestingly, about 58% of the faculty members responded that they have taken an online course previously. From their experiences, the faculty seemed to think that they would spend more time teaching their online course (68%).

In addition to determining faculty readiness, a student online readiness survey was administered by the college. About 72% (400/557) of the student respondents indicated that they can work independently without the traditional class arrangement, while 64% expect to spend more time in a DE course as compared to their traditional course. About 17% of the students expect to spend 6-9 hours on an online course (meets expectations for success in online courses), while about 8% expected to spend more than 9 hours. Almost 75% of the students responded that they would expect to spend less than 6 hours and suggests that orientation would be important to ensure that students are aware of online course expectations.

## **Strategic Plan Objectives Items – Aligned with DE Strategic Goals**

## DE Goal 1.1:Provide a full range of student services online for both oncampus and off-campus students

Objective	Area of Focus	Description
1.1a	Virtual Student Support	Develop an online student system that enables remote students access to admissions, registration, course enrollments, counseling, library access, textbooks, advising, financial aid, transcript requests and access to diplomas.
1.1b	Faculty and Staff Awareness program	As the enrollment in GCC online courses/programs grow, the need for staff and faculty understanding of the importance of support activities for students outside the local region will consequently increase.  The development of the virtual processes requires staff and faculty member support.
1.1c	Develop support services for faculty and students in the full range of DE courses	Students may be enrolled in fully online, Hybrid or Web-enabled courses and they will have varied needs based on the type of course they are engaged in. It is the intention of the college to provide a full repertoire of services to support both faculty and students taking the wide range of DE courses. (See above chart on Resources aligned to GCC courses types)
1.1d	Library Services	Provide support and enhance library services as additional courses are offered.
1.1e	Accommodative Services	Provide support and ancillary services when possible to support online students

# DE Goal 1.2: Provide the organizational structure that will support active student advising and career counseling

Objective	Area of Focus	Description
1 .2a	Advisor assignment	Develop an online student advising system whereby advisors (faculty or staff) can be assigned to an incoming DE student upon their acceptance at the college.
1 .2b	Advising management	Develop a system whereby DE students must meet with advisors prior to their first DE course enrollment.
1 .2c	Advisor training	Implement an advisor training / professional development system to ensure that all advisors for DE students utilize the institutional system and have access to all tools that would enable them to successfully accomplish their advising tasks.

DE Goal 1.3: Develop online degree programs that will meet current industry needs

Objective	Area of Focus	Description
1 .3a	New Online Program Market Analysis	Facilitate an online program market analysis for determination of appropriate online program development. Commission a market analysis for determination of appropriate online program development. This analysis is a prerequisite for understanding long-term opportunities for expansion in the higher education market space.
1 .3b	Hybrid Program Development	Increase number of hybrid courses offered at the college. A hybrid course offers 50% of the course instruction remotely, and 50% on campus. This initiative will enable more students to experience online course delivery but also provide faculty an opportunity to provide instruction remotely where pertinent. Furthermore, scheduling of courses that require scarce lab resources would be supported by utilizing a hybrid model.
1 .3c	Web-Enhanced Courses	Increase the use of web-enabled technologies in onsite courses in all GCC programs. This initiative will enable faculty to utilize various technologies to support their pedagogy, but also provide students with an opportunity to experience varied learning structures. Some faculty who develop Web-Enhanced courses may in the future consider developing hybrid or even fully online courses if a need arises for this type of delivery. Each program should offer at least 1 WE course (Target date is by year 3)
1 .3d	Student Course Evaluations and Retention Survey Mechanisms	Review current student course evaluation mechanisms and surveys to enable data driven decisions about course and program effectiveness.

DE Goal 2.1: Provide faculty with innovative tools access and multimedia presentation capabilities within each classroom, to support teaching and learning, communication, and collaboration.

Objective	Area of Focus	Description	
	Learning Management System (LMS)	As part of the global strategy to support effective online learning, a formal LMS review should be undertaken. The DE office will conduct a formal review of the current LMS to determine if the Moodle LMS will support GCC's commitment to faculty and student support in addition to future increase in DE student enrollment. As part of this review, the college will determine if the current LMS service is to be continued, switched to 3rd party hosting vendor, or if the selected LMS should be cancelled and the college embark on a search for a different LMS.	
2.1 b	Video Streaming	The college should plan and develop a long-term web-conferencing strategy and solution, then make it available in a consistent manner across all web-enhanced, hybrid, and online courses.	
	Funding Allocation and Grant Support for DE at GCC	GCC has strong fiscal responsibility and compliance in grant management. The grants can seek foundation and federal grants to support DE institutionalization at GCC. Funding allocations will follow the institutional budgeting process.	
	Special Technology - Innovation Support	Develop a formal process of project approval for creative use of innovative technology in DE courses.  Academic Technology resources and support need to be provided to accommodate creativity and innovation through faculty experimentation. To limit the scope of activity, experimental projects should be formalized, and faculty participation should include reporting of findings to the grants team in order to facilitate recommendation for use and adoption with wider support.	
2.1e	Mobile Learning Initiative	Develop plans for a formal initiative on the development of a mobile learning strategy.	
2.1 f	Classroom Technology Training	Provide tools and training on the use and support of classroom technology.	
2.1g	Classroom Technology Inventory	Review the current inventory of classroom technology and all available utilization data.	
2.1h	Classroom Technology Upgrades	Review process and procedures for identifying, evaluating, and making decisions on acquiring and replacing classroom technology.	
	Wireless Access to Support Mobile Learning	Review wireless availability in all areas to provide for large scale student access. This will serve as a foundational technical requirement for expanded mobile learning.	

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DE Goal 2.2: Provide a Learning Management System (LMS), a webbased software application for the administration, documentation, tracking, reporting and delivery of electronic educational technology courses or training programs available to all classes (online or Face-to-Face).

Objective	Area of Focus	Description	
2.2a	Learning Management The DE office will review the LMS cnrrently being used for the		
		pilot. They will compare it with other systems available and determine whether to continue with the current LMS or engage another system.	

DE Goal 2.3: Provide faculty a systematic and ongoing professional development program that will include technology training, online course development, and pedagogy.

Objective	Area of Focus	Description
2.3a	Review DE Policy	Review DE Policy to ensure compliance with accreditation requirements.
2.3b	Faculty Certification for Online Teaching	Develop a standard required professional development training program for online course delivery based on institutional guidelines.
2.3c	Professional Development Plans	Create and maintain instructor development programs to build faculty expertise in a variety of professional and technical areas such as mobile learning, pedagogy and effective use of online learning technologies.
2.3d	Innovative Technologies in DE	Conduct an ongoing series of presentations open to all faculty members that showcase innovative technologies that can be incorporated in DE courses.

DE Goal 2.4: Apply institutional standards and best practices that will serve as online course development models.

Objective	Area of Focus	Description
2.4a	Syllabus Template	Facilitate the development of a campus-wide syllabus template to ensure GCC standards are being met across all delivery methods. Confidence in choosing GCC for a program means that ALL courses associated with that program have the same level of quality, no matter which delivery method is being used.
2.4b	Course Design Standards	The DE office will create and periodically review course development guidelines for all DE courses, to ensure effective delivery and assessment of student content mastery.
2.4c	Online Course Evaluations	Create and evaluate process for reviewing online course readiness prior to the course being initially delivered.  Evaluations will be conducted similar to how it is conducted in face-to-face classes.

DE Goal 2.5: Increase the use of digital material in all courses including no cost and low cost solutions

Objective	Area of Focus	Description
		The DE office will look at ways to eventually incorporate only digital material when delivering an online course,
		The DE office will also look at incorporating digital material no cost or low cost for students.

DE Goal 2.6: Provide MIS technical staff a systematic and ongoing professional development program that will include DE-specific technical training to support DE students, faculty, and staff.

Objective	Area of Focus	Description
	Determine DE technical support needs	Review DE technical support needs to address accreditation technology resources requirements out of MIS.
	Online Technical Support	Develop technical training standards for required online in-house technical support.
2.6c	Technical Staff Development Plans	Create and maintain technical staff development programs to build expertise in technical areas in support of mobile learning and in facilitating online learning technologies.

DE Goal 3.1: Provide high level of technological reliability and technical support.

Objective	Area of Focus	Description	
3.1a	BPM Revitalization	Run a BPM to determine current areas of opportunity within Banner for automation improvement.	
3.1 b	Academic Technology (AT)	Review current AT resources and personnel and increase support as deemed necessary when DE offerings and service demands increase at GCC.	
3.1 c	Information Technology (MIS)	Review current MIS resources and personnel and increase support as deemed necessary when DE offerings and service demands increase at GCC.	
3.1d	Helpdesk Services	Establish and maintain a helpdesk service for DE students and faculty members. This will require the collaboration of various departments such as AT, MIS, and student support services and an escalation system will also need to be developed.	
3.1e	Technical Support	Collaborate with MIS and Academic Technology to ensure appropriate and sufficient technology support for DE faculty members, staff and students.	
3.1f	Periodic Equipment	Develop a standard	Online Classroom

	Checks	technology equipment	On-Campus  Back-End and Cloud-Based DE support systems
3.1g	Review of Helpdesk Process	Develop a system for student helpdesk process, and establish an evaluation of the effectiveness of the implemented methodology	
3.1h	Online Training Documentation and Training Videos	Develop a library of online training aids that will provide training on all technologies currently being used to support DE at GCC.	
3.1i	Faculty Support Alternatives	Collaborate with AT and MIS to identify possible immediate response help for faculty if work is being impacted by technical problems or software questions	

# DE Goal 3.2: Establish a separate DE office that provides leadership and oversight through effective policies and procedures for DE.

Objective	Area of Focus	Description
	of DE office	Develop and maintain a framework for the DE office within GCC which coordinates/manages DE delivery in collaboration with institutional divisions, to enable sustainable and reliable resource allocation. This DE office will also support the creation and maintenance of a budget for all DE functions.
3.2b	DE Policy	Review DE policy to support DE program compliance.
	<b>Operating Procedures</b>	Review DE standard operating procedures guiding faculty and staff to include expectations for integration of online techniques and technologies across web-enhanced, hybrid, and fully online platforms.
	College Technology Governance	The DE office will work with the College Technology Committee (CTC) to comply with GCC's technology plan. The DE office will provide regular reports to the CTC.

#### 3.2e DE office

The DE office will consist of a DE administrator, an instructional technologist, and a technical support person.

The responsibilities of the DE office will include

- Provide high level of technology reliability and technical support. (faculty, staff, and students)
- Ensure proper technological resources are available for DE faculty and DE classrooms prior to teaching the course.
- Technology design
- Infrastructure support
- Assisting the DE office with
  - o DE policies and procedures
  - o Five year strategic plan
  - DE training and education
- Creation of course templates
- Review of initial DE courses to ensure compliance with accreditation and USDA guidelines.
- Provide guidelines/training to DE course compliance with accreditation and USDA guidelines.
- Research future possibilities and technologies for DE education.
- Work with industry leaders regarding strategies, new tools, products, and services available to increase productivity and improve online practice.
- Review and assess the Learning Management System (LMS), a web-based software application for the administration, documentation, tracking, reporting and delivery of electronic educational technology courses or training programs available to all classes (on-line or Face-to-Face).

An internal advisory group will consist of the current faculty members in the DE taskforce. It will also include two more faculty members who have taught or have taken DE classes, an MIS administrator and the Academic Technologies administrator.

The responsibilities of the DE internal advisory group will include

- Review of current DE issues (GCC and Globally), DE instructional research (DE effective practices, skills, and emerging technologies) and new developments and trends in DE.
- Review and assess the Learning Management System (LMS), a web-based software application for the administration, documentation, tracking, reporting and delivery of electronic educational technology courses or training programs available to all classes (online or Face-to-Face).

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<ul> <li>Provide faculty a systematic and ongoing professional development program that will include technology training, online course development, and pedagogy.</li> <li>Implement an advisor training / professional development system to ensure that all advisors for DE students utilize the institutional system and have access to all tools that would enable them to successfully accomplish their advising tasks.</li> <li>Develop a formal process of project approval for creative use of innovative technology in DE courses.</li> <li>Apply institutional standards and best practices that will serve as online course development models to include the development of checklist for DE course readiness and compliance with accreditation and USDA guidelines.</li> <li>Recommend DE policies and procedures.</li> <li>Review and update five year DE strategic plan.</li> <li>Research future possibilities and technologies for GCC DE education.</li> <li>Assist and be a recommending body in the development of administrator course evaluation for DE courses.</li> </ul>

DE Goal 3.3: Provide the DE office and other technical and support staff and administrators with training, services, and tools needed to facilitate and make DE courses an effective and efficient means of learning.

Objective	Area of Focus	Description	
3.3a	Review DE Organizational Structure, Roles, and Responsibilities	Review the organizational role and responsibilities of departmental course developers, MIS, academic technology department staff, and A/V support team to ensure adequate effective support in all activities related to academic technologies – online and in the campus classrooms. (See Appendix 4)	
3.3b	Develop Shared Resources Model for Course Development (Course Guides)	Develop shared resources model for online program development in order to maximize the growth potential, standardize the learner experience, and simplify the training requirements for instructor participation	
3.3c	Course Development Models	Review current course development models and establish a DE course development model that incorporates timeline, quality control, instructor interactions with instructional designers, and instructor compensation for course development. In addition to the instructor, the library should be an integral part of this process to ensure that copyright matters and access to instructional resources are addressed during the course development process.	

DE Goal 3.4: Provide training for faculty, staff and administrators on the use of administrative and productivity technologies and applications.

Objective	Area of Focus	Description		
3.4a	Online Access to Software Training	Review current access to online training on common productivity software – students, faculty and staff		
3.4b	Administrative Technical Training	Develop and maintain an ongoing systematic schedule of training in key administrative applications such as; Banner and Luminis, equipment training, networking systems, operating systems, cloud, and virtualization, in addition to any training that will improve administrator and staff competency in supporting DE.		
3.4c	Faculty	The DE office will develop and maintain the guidelines for a DE professional development program.		
3.4d	Course Evaluator Training	Develop administrator course evaluator training for DE courses that cover course navigation, course delivery, etc. The DE office will review the expectations and provide recommendations.  A listing of evaluator expectations will be provided to all DE faculty prior to review.		

DE Goal 3.5: Evaluate effectiveness of services provided to DE students and faculty.

Objective	Area of Focus	Description
3.5a	Establish Key Performance Indicators (KPI)	Establish and review current student service KPIs and create indicators that will assess and improve service effectiveness across all student service sectors that support DE students based on current practices.  For DE courses, assessment of KPI's will be related to current practices.  This will be done on an annual basis. (See Appendix 5)
3.5b	Service Management	Review current service protocols and incorporate a ticket / tracking system to ensure that service delivery to DE students can be measured. This will ensure that the college can track service requests and ticket resolution.  Tracdat system can be used to support process improvement.

DE Goal 4.1: Provide a structured marketing and communication plan for distance education courses and programs.

Objective	Area of Focus	Description
4.1a	Establish Key	Review current marketing KPIs and establish indicators that will
	Performance	enable assessment of marketing effectiveness (See Appendix 6).
	Indicators (KPI) for	
	Marketing	

4.1b	DE Market Analysis	Promote periodic market research on DE needs in Guam and Micronesia will inform the college on regional and international opportunities. Continuous review of market trends and employer needs play a significant role in the selection and development of new DE programs and courses. Polling of current and prospective students will be included in the strategies.
4.1c	DE Marketing Plan	Develop a marketing plan for the DE programs and courses, so as to attract prospective DE students for the online courses/programs that GCC will deliver.  This will reduce the chance for internal student cannibalization and will support the college in expanding its reach within Guam, Micronesia and other International Markets.
4.1d		Create a DE working group (Office of Communication & Promotions, Department Chairs, and Associate Deans) that periodically meets to review market opportunities for DE courses and programs.
4.1e	Marketing Fulfillment Process	Develop a clear fulfillment process for prospective students who are seeking additional information on DE programs/courses. Assign departmental "Point of Contact" for each DE program to ensure that there is follow through on fulfillment requests.
4.1f	Utilization of Media by GCC	Leverage GCC Media as a resource for growing online programs

#### Appendix 1 – Recommendations from Needs and Capabilities Assessments

Note: These recommendations are also found in the Needs and Capabilities Assessment documents provided by Ellucian on 3-30-2014

#### **Recommendations on Service Capabilities and Current Resources**

- 1) Consider Moodle as an LMS for the whole institution. Due to familiarity, inexpensiveness, and ease of use, GCC should continue using the Moodle environment for distance education delivery. Furthermore, faculty members are already primed for Moodle acceptance per their responses to the academic technology survey.
- 2) Consider hosted Moodle Solutions GCC should consider this as a scalable LMS utility and management option, due to the instability of the Moodle instance, lack of backup, failover, and sandbox, and lack of personnel, hardware, and time to technically host and support this LMS.
  - a. There are a number of companies that host Moodle that would require very little setup for minimal expense compared to what internal hosting would cost. One host company that matches the needs of GCC well, is remote-learner.net; however, MoodleRooms is also a common third party hosting company.
  - b. Factors to take into account when choosing an external hosting provider:
    - i. Level of technical support;
    - ii. Availability/uptime;
    - iii. Plans for integrating Moodle updates;
    - iv. Redundancy;
    - v. Scalability;
    - vi. Sandbox availability;
    - vii. Ease of data migration in case a different solution is chosen;
    - viii. Cost/pricing plan structure.
- 3) Course and program selection for pilot and full DE rollout: Possible options include, but are not limited to:
  - a. Redeveloping the existing Education courses;
  - b. Identifying courses that suffer from limited availability of large labs on campus, and running them as hybrid, meeting half as often and doubling the availability of lab time;
  - c. Developing GED completion and/or Continuing Education courses to reach the adult population of Guam that may desire high school degree completion;
  - d. Expansion of Math courses that utilize Math XL to fully online offerings;
  - e. Selecting general education required course that would hold value as a stand-alone course to non-GCC students (for example, a Microsoft Office proficiency course).
  - f. Identifying courses that affect student completion rates but that have enough volume per year to remain viable for online delivery.
- 4) Offer training for students and faculty. Within the context of the adopted LMS environment, design and offer training courses for both students and faculty who would participate in distance education.
- 5) Partner an Instructional Designer with selected faculty to develop selected courses and train on instructional practices.
- 6) Investigate the feasibility of adding Ellucian DBA support to address shortcomings in Banner support at GCC that would enable the integration of Banner and Moodle, as well as potentially automating other manual processes (e.g. Banner integration with bookstore software).

- 7) Develop a long-term plan to integrate Banner and Moodle, to provide SSO access to Moodle via MyGCC, and utilize a Moodle course shell to supplement every residential course to provide a cohesive and easy-to-access resource for instructors to share content and materials with students.
- 8) Review of student advising: Faculty at the departmental level are assigned advisees, however both the counselors and students indicated that very few faculty actually advise the students and in most instances the students go to counselors for advising support.
- 9) Review both library support services and textbook provision protocol for distance students.
- 10) Review process for course retake and the role that counselors play in this process.
- 11) Review student admissions and course registration process to enable more automation that can support remote student application and admissions processes.
- 12) Review policy compliance especially as relates to student payment deferral systems. Inconsistent approval of payment plans to students can pose a risk to the college in the event that a student is denied access while others are being granted deferrals.
- 13) Review automation of add/drop and withdrawal from courses for fully online students.
- 14) Consider including "prior online instruction experience" in the job descriptions for faculty seeking to teach online courses at GCC. Especially relevant for the adjunct faculty.
- 15) Develop procedures for remote transcript request completion.
- 16) Develop a communication and change management plan for the college so that there is transparency in DE implementation and environmental impacts.
- 17) Review current DE policy on;
  - a. Intellectual Property and Strategy for Online Course Creation
  - b. Assessment of Online Courses to Ensure Integrity in Distance Education

#### **Recommendations on DE Pilot**

- ✓ Review service capabilities and resources to determine if Fall '14 remains feasible for pilot of courses.
- Prioritize tasks per recommendations and determine which will be critical in supporting the pilot.
- ✓ Develop an organizational structure that oversees the functioning of DE at GCC.
- ✓ Develop policies and procedures that will guide DE pilot and future DE offerings.
- ✓ Determine the Key Performance Indicators for the pilot and set benchmarks. This will help gauge the success of the pilot.
- ✓ Develop an aggressive marketing and fulfillment plan for the pilot courses so as to minimize cannibalization of current students.
- ✓ Develop courses and train faculty who will be engaged with the pilot project.
- ✓ Train DE course evaluators.

#### **Market Differential**

- 7. In drawing conclusions regarding effectiveness of program and instructional strategies, systematic and regular collection and evaluation of timely data is required. Best practices require regular feedback from students as customers in their experiences with DE programs and courses. Regular review of survey data designed to identify improvement, success and further work in DE is necessary. Preliminary results from the following surveys will enable the college to determine its current readiness to enter the DE market.
  - a. Online student readiness This survey explores student expectations of online classrooms, technology preparedness, study skills and habits, access to computers and knowledge of common software. Students receive immediate feedback upon completion

- of the survey, and the college ensures that each student is provided with both thoughtful responses about their intrinsic knowledge of technology, study habits and organization, learning style, and directions on how to increase their abilities to follow focused directions and attention to detail. Students then decide whether or not to wait to take an online class while they improve one or two skills needed to be successful.
- b. Faculty self-evaluation of online teaching readiness. In this case, faculty members complete a survey that measures online teaching philosophy, DE awareness, DE expectations and overall online skills and preparedness. As a result, faculty members often receive additional training for improvements in managing their online classroom. Taken together, an assessment of institutional faculty and students in addition to prospective faculty and students will provide the college with a clear perspective on student and faculty needs and gaps. The investment in creating a culture of online learning would then be assessed relative to the benefit obtained from developing online programs, and a Return-On-Investment determined -- insufficient student and faculty readiness have been shown to cripple online programs.
- 8. Also worthy of review is the development of higher-level courses that meet the needs of rising graduates and the Guam workforce. Students that see extended time to completion while awaiting 200 level courses would have their needs met, in addition to providing an avenue for the local workforce to enroll in courses offered by the college, but at their own time.
- 9. There are about 18,000 potential adult education students on Guam. Diploma readiness courses that are flexible but interactive may be appealing to this demographic on Guam, however a clear needs and technology capability assessment would be required to determine whether who would be best suited for DE at GCC.
- 10. Lastly, research has shown that most online students prefer to enroll in a program that is within a 100 mile radius of their home. The college attracts close to 500 students/year/high school in dual enrollment and college readiness programs. There are five high schools directly affiliated with GCC, suggesting that there are anywhere from 2,000 − 2,400 students directly impacted by GCC culture on an annual basis. It was noted that there is an attrition rate of about 50% from 10<sup>th</sup> → 11<sup>th</sup> grade and an additional 50% attrition from 11<sup>th</sup>- 12<sup>th</sup> grade. These students are already primed for a college experience when they first engage with GCC in 9<sup>th</sup> grade and would be a ready market for online courses that meet their needs. A survey of these students' interest in DE would be beneficial in determining whether GCC has an opportunity to cater to their needs since they already see the value of a GCC education. This mitigates risk involved in seeking students that are greater than 100 miles away from the college.

## **Appendix 2 – DE Implementation Plan (Five Year)**

Year 1				
2015—2016	Year 2	Year 3	Year 4	Year 5
	2016—2017	2017-2018	2018-2019	2019-2020
Initiate DE governance framework  Adoption of LMS throughout the institution  Review of current DE policy  Establishment of policies that strengthen DE at GCC  Budget allocation to financially support DE  Banner - Run BPM Revitalization  Development and implementation of DE 2-year marketing strategy  Selection of courses to be included in DE Pilot  Development of pilot DE courses to meet best standards  Faculty training for faculty participating in DE pilot courses  Faculty evaluator training  Student Readiness Assessment  Faculty / Staff Readiness Assessment  Review student support systems and establish improvement strategy  Offer DE courses (Pilot)  Assessment of DE Pilot		2017—2018  Complete student support system improvements  DE program development  DE course assessment  Continued faculty and staff development  Budget allocation to financially support DE  Assessment of		

Note: Specific objectives aligned to this chart are found in the Standard Operating Procedure manual.

#### **Appendix 3: Key LMS Features to Consider**

- Level of technical support provided;
- Vendor support
- Active community support
- Availability/uptime;
- Plans for facilitating LMS updates;
- Redundancy;
- Scalability;
- Sandbox availability;
- File storage capacity and limitations;
- Design and branding options;
- Built-in tool capability, including:
- o Forums
- o Assignments
- o Lessons
- o Quizzes
- o Blogs
- o Wikis
- Integrated tools, such as:
- o ePortfolio
- Web conferencing
- o Analytics
- o Streaming video
- Ease of data migration in case a different solution is chosen;
- Interface;
- Social learning tools;
- Accessibility and compliance;
- Integration with third-party tools;
- Email functionality;
- Security;
- Administrative monitoring;
- Availability of content libraries;
- Implementation and training;
- Mobile support;
- Cost/pricing plan structure.

#### Appendix 4 - DE Organizational Structure and Student Support Systems.

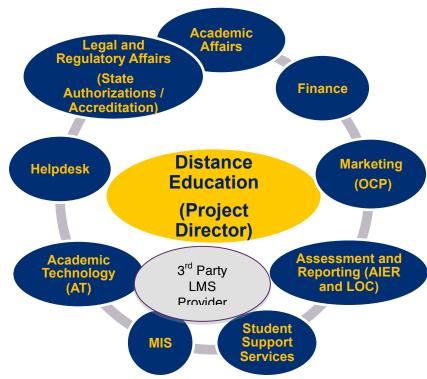
As part of the DE assessment process, it is recommended that an organizational framework be developed to support the full DE student life cycle at the college.

The DE director will work in collaboration with Finance, Marketing, Academic Affairs, Student Support, and AIER to build and develop a sustainable DE program at GCC. The student support infrastructure includes a direct interaction between student support services, Academic Technologies (AT), MIS (Management Information Services), and the Helpdesk. The Academic Affairs division would support the Helpdesk when specific program questions arise. In addition, this division would ensure that all DE programs are compliant with all legal and regulatory guidelines for DE including state authorizations and accreditation.

The Helpdesk, Student Support Services (SSS) and a 3<sup>rd</sup> Party LMS provider, are the first responders to student issues and require consistent updates and business continuity. The SSS includes but is not limited to: Admissions and Registration, Financial Aid, Bookstore, Library Services, Counseling and Advising, Tutoring, Accommodations and Testing Services. Issues that cannot be resolved by the Helpdesk would be escalated to the appropriate department within the college, to ensure that all matters are responded to appropriately and in a timely manner. Continuous collaboration and planning will be maintained between groups that are critical to process improvement in student support services. Assessment of the DE programs/courses, Helpdesk and Marketing (Office of Communication and Promotions, OCP) will support the institutional goal of enabling a culture of improvement and accountability. The level of support to the courses will vary depending on whether they are web-enhanced, hybrid or fully online.

Most institutions have their IT departments report to a Chief Information Officer. The MIS department at GCC currently reports to the Finance and Administration Division (FAD) VP, and supports the IT infrastructure for most of the academic and administrative automated processes. The AT department also reports to the FAD VP and supports classroom technology and related training and is currently

responsible for DE management. The MIS and AT departments play key roles in DE support, and will work together to manage technology needs across the academic and administrative functions of DE, albeit they have varied functions. The MIS and AT departments will provide support to DE students and faculty when relevant helpdesk tickets are escalated to them.



#### Appendix 5 - Key Performance Indicators

Several institutions do not segment online course and program data from their traditional courses and programs. At Guam Community College (GCC), online courses are currently noted as "online" under schedule type and can therefore be tracked and data used to support future improvement of Distance Education (DE) courses. As GCC considers implementing a robust online DE offering, it will be important to establish benchmarks / Key Performance Indicators that can be used to measure the effectiveness of the courses/programs through student, faculty and institutional successes. The student population that these benchmarks would be relevant to would be those with the student type of "online" in the general student record. Currently there are no students with this designation at GCC.

This document proposes the following Key Performance Indicators (KPI) for GCC's DE initiative. Although the KPIs are somewhat prescriptive, they actively support DE growth, and can inform the current institutional KPIs, as reported in the Annual ACCJC Report. As DE grows, it will be important to track the impact of the online learning delivery mode on matters such as:

- Market Penetration: GCC has an opportunity to expand its market share within the island of Guam and in Micronesia, in addition to expanding its student body through increased delivery to dual-enrolment students and career professionals seeking workforce development programs.
   GCC's DEAL/DCAPS programs and the CTE Secondary programs provide additional opportunities (introductory/foundation) for DE.
- Student access and success: Tracking student ability to access and successfully complete GCC's high quality and affordable online courses and programs is critical, as the college strives to meet the 4 key institutional goals (Ref: Institutional Strategic Master Plan 2014 2020: Goals and Initiatives)
- Access to and use of technology to augment online learning or online student management: The College has support structures that can improve/enhance the experience of the online student in addition to traditional students by continually addressing opportunities that exist to provide additional Advising, Tutoring, Proctoring, Testing and other services.
- Student Satisfaction in their programs of study: Monitoring student satisfaction in online programs is critical in providing feedback that can be utilized for process improvement in online course development &delivery, faculty interaction and student wrap around services.

KPI	KPI Measure	Definition
DE Market Penetration	Guam Resident	Guam students taking credit
		programs (PT or FT)
		Guam students taking credit
		courses
	Non Resident (student whose	Non-Resident students taking
	permanent residence is not in	credit programs (PT or FT)
	Guam and does not pay local	Non-Resident students taking
	Guam taxes)	credit courses
	Foreign Students (non-citizen with a non-immigrant visa)	Foreign students taking credit programs (PT or FT)
	with a non inningrant visa)	Out-of-State students taking
		credit courses
	Dual Credit Articulated	High school students taking
	Programs of Study (DCAPS)	credit courses
	and Dual Enrollment	High school students taking
	Accelerated Programs of	credit programs (PT or FT)
	Study (DEAL)	
	Non-Credit (NC)	# of students enrolled in NC
	, ,	programs
DE Student Enrollment	Fall Credit Students	
	Fall Non-credit Headcount	
	Spring Credit Students	
	Spring Non-credit Headcount	
	Fiscal Year Headcount	
	Percent Transfer Credit Hours	
	Percent Technical/Career	
	Credit Hours	
	Percent Developmental Credit Hours	
	Fall Credit FTE numbers	
	Spring Credit FTE numbers	
DE Student Persistence	Course completion rate	
	(based on course	
	withdrawals)	
	Within-term retention rate	
	(headcount)	
	FT FTIC Fall-to-Spring	
	persistence rate	
	PT FTIC Fall-to-Spring	
	persistence rate	
	FT FTIC Fall-to-Fall	
	Persistence rate	
	PT FTIC Fall-to-Fall	
	Persistence rate	

KPI	KPI Measu	ıre		Definition
	2-year FTIC Fall-to-Fall			
	Persistence rate			
	2-year FTIC Fall-to-Fall			
	Persistence rate			
	Productive	grac	de rates	
	Single term			
	persistence			
	Dual term of			
Distance I comic of Occident	persistence			
Distance Learning Grades	Percent		nd B Grades	
	of grades in each		mpleters (A, B,	
	DE		D, F, P) npleters	
	course		ccess(A, B, C,	
	Journey	P)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			hdrawals	
DE Student Graduation	Percentage		students that	
	completed			
	certificate a	_		
	within three	e yea	ars	
	_		students that	
	completed	_		
	certificate and transferred			
	within three years			
	Student go		Completers Non-	
			Completers	
	Career program completers		<u> </u>	
DE Student Satisfaction	IDEA surve		1 completers	
Financial Access and			on and Fees	
Affordability			tion Student	
,			efault Rates	
Resources and Services	IT FTE staf	ff/pei	r VC student	
	Help Desk	Serv	vices (E.g. hrs.	
	of access, ticket resolution		t resolution	
	rate etc)			
	Other		Orientation	
	Resources		Advising	
	and Service	es	Tutoring	
	(hrs. of		Proctoring	
	access) Testing Library			
			services	
			Helpdesk	
			Support	
Financial	Unrestricted Operating Funds			

KPI	KPI Measure	Definition
	for DE	
	Operating Fund Sources for DE	
	Cost per Credit Hour and DE FTE student	
Student: Faculty Ratio	Number of FTE online faculty	
	divided by online credit	
	student FTE	
Faculty Load	Average # of online courses	
	taught by faculty	
Faculty training	Total development or training	
	expenditures divided by Total	
	# of faculty teaching online	

## Appendix 6- On-site meetings with DE taskforce, students, faculty and other institutional stakeholders.

Ellucian Higher Ed, sister company to Ellucian, the maker of the Banner system GCC uses, was hired to create four reports: 1) Market Assessment & Needs Analysis; 2) DE Capabilities Assessment of GCC; 3) DE Strategic Report and 4) DE Standard operating Procedures. In partnership with key academic leaders, Ellucian completed the first two reports and provided draft copies of the latter two.

The assessments, coupled with ensuing recommendations from the DE Taskforce members (indicated by \*) and institutional stakeholders formed the foundation for this Strategic Plan.

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#### Student

Vicenta Lundgred

On campus forum attendance: 16 students and 26 faculty attended four sessions over a period of four days.

#### Resources

- GCC ISMP 2014 2020 (draft)
- Capabilities and Needs Assessments (Ellucian)
- DE Policy 340 Board of Trustees DE resolution
- http://elearningindustry.com/top-open-source-learning-management-systems
- http://i1.wp.com/mfeldstein.com/wpcontent/uploads/2013/11/LMS\_MarketShare\_20131104-Home.jpg
- http://www.ajer.org/papers/v2(7)/O027124130.pdf
- http://moodle.com/partners/
- https://sakaiproject.org/try-sakai-cle
- http://www.instructure.com/
- http://www.desire2learn.com/
- http://www.blackboard.com/Platforms/Learn/Overview.aspx
- http://www.edweek.org/dd/articles/2013/06/12/03lms-evaluation.h06.html
   http://www.learningsolutionsmag.com/articles/1181/five-steps-to-evaluate-and-select-an-lms-proven-practices
- http://lectora.com/factors-to-consider-when-choosing-an-lms