

Guam Community College: Distance Education Capabilities Assessment

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Introduction

Guam Community College (GCC) continues to strive to meets its mission in providing high quality, student-centered education and job training for students of Micronesia. As part of this process, the college has embarked on an analysis of its Distance Education (DE) capabilities by engaging Ellucian consultants. During the week of February $10^{th} - 14^{th}$, Dr. Christine Martey-Ochola and Mr. Martin LaGrow from Ellucian visited the GCC campus in Mangilao and, through the coordination efforts of Wesley Gima (GCC), met with students, faculty and staff members as part of the assessment process. Although the college has already offered a few distance education courses, there are opportunities to strengthen the development, management and delivery of distance education offerings from GCC.

Through a grant from the US Department of Education, the Education Department developed DE courses; however, the support services that play a key role in ensuring good online student experiences were not addressed by the grant. Furthermore, institutional technical and helpdesk support was not made available to these students. The online courses neither met Quality Matters standards nor best practices in instructor interactivity. Students were not equipped for online instruction through orientation and training. As a result, several learners did not have the knowledge of what it takes to be a successful online student. It was also mentioned that students were unable to distinguish the online courses from their regular courses during registration (courses were previously labeled as Friday courses), which caused several students to be enrolled in online courses without their full knowledge. This has since been rectified and the DE courses are now slotted under the schedule type <u>online</u>. Faculty from the Education department also mentioned that some students signed up for the online courses as a last resort because the traditional in-class courses were full, indicating that a thorough market analysis was not completed prior to development and delivery of these online courses.

This document outlines institutional assessment findings and specifically addresses the technological, management, training and student support service components currently available at the college. Also included in this summary is a review of the regional and national rules and regulations that guide DE. These policies and procedures have been reviewed and aligned with current GCC policies and procedures. Recommendations have been provided which, if implemented by the college, will strengthen DE development and management. A summary of recommendations on resources and capabilities has also been provided. If considered and implemented, these recommendations will enable GCC to offer accredited online programs that are competitive and meet market need.

Are GCC constituents interested in Distance Education?

Hundreds of higher education institutions offer online courses and programs. In most instances, the main driving force is a desire to increase enrollment. Although an increase in enrollment is a good reason to enter into this field, a deeper more fundamental desire to provide students a better learning experience, instructors a better teaching experience, and staff and administrators an efficient working experience makes the difference in the value that an institution derives from its DE activities.

Student access and success is a key decision driver at GCC. Tools and initiatives that can improve a student's access to college and success in their program of study are the main driving force for any change to the current system. Faculty members were concerned about students having insufficient face time with their peers and instructors, while students wondered about the effectiveness of distance learning and whether their faculty would be trained to teach online. Assessment was not far from the minds of most of the institutional leaders and staff members. Faculty members, department chairs and executive leadership asked questions on "how the courses can be evaluated" and "how to ensure that the courses or programs meet accreditation standards". A thorough review of the business processes gave staff a chance to start visualizing what it would take to give a DE student an experience comparable to that of a face-to-face learner.

Staff indicated that they have multiple manual processes which if automated or streamlined to meet the needs of DE students would support the whole student body. (These are discussed in further detail below). Faculty members were also responsive to the flexibility that DE courses would bring to their

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students, and indicated that there are some students who have delayed graduation because of course access. Faculty recommended the development of hybrid as well as online courses, because there was consensus in student behavior/culture and their desire to have an onsite experience even though they may want flexibility in taking certain courses online. Students indicated that they have taken some courses online at other institutions and are considering being fully online students upon graduation from GCC. An opportunity to have a DE experience while at GCC, but prior to transferring to other institutions, was also raised by students. Taken together, the students indicated an interest in taking DE courses at the college. They cited transportation and course scheduling as the main reasons they would like to take DE courses¹.

Summary of current status of DE at GCC

DE management, communication, marketing and business processes

and business processes	
 GCC is committed to meeting accreditation requirements, but it is unclear whether there is commitment to developing a robust distance education program / division. DE vulnerability due to partnership with 3rd party online course/program providers e.g. Ed2Go. There are memoranda of understanding / articulation agreements with institutions that may be potential DE competitors e.g. University of Phoenix. Banner capabilities are not optimized - Multiple manual processes in student management (admissions, registration, etc.) 	 Varied understanding of DE at the faculty member, student and staff level. Faculty members were unclear about GCC's DE intentions. Inconsistent adherence to current institutional policies. Inconsistent marketing plan for programs. Inconsistent recruitment plan for programs. No DE program(s) selection. Unclear rationale for selection of courses for pilot DE program.
Current DE status	
 Insufficient technical knowledge and hardware resources to successfully host and support Moodle in-house. Lacking both front-end and back-end Moodle support. Insufficient policies and procedures to guide DE. Lack of oversight of current DE courses. 	 No faculty member training for online instruction. Current online courses are not consistent in template, and are not ADA compliant nor fully online. Inconsistent course development – lacking instructional development personnel. Inconsistent course evaluation. No online course evaluator training.
Other factors that impact DE	
 Overloaded website – too much information in certain tabs. Inconsistent adjunct faculty member onboarding process at the departmental level. Inadequate student advising – long "Time to Completion" for students. 	 Insufficient staffing to support full DE division. Less than optimal student services for fully online learners. No helpdesk or student/faculty tech support. Faculty members are engaging with online tools that do not have onsite support.

Concerns that were raised about DE

The questions below were raised during the faculty, staff and student focus group sessions and were addressed as indicated below each bullet point (italics). It will be necessary for the college to continue

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¹ Data obtained from Poll data run on GCC website (February 2014)

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the dialog about DE to all constituents so that their questions and needs are addressed as the college seeks to implement DE.

- Was the college ready to invest in establishing a competitive DE program/initiative? This is going to be determined by the college following the needs and capabilities assessment.
- How would the quality of instruction be determined and would the online courses be evaluated differently?
 Measures would be put in place, and processes established to evaluate the online classes and support faculty seeking to teach online so that they can be successful online instructors. (This is pending GCC's decision about whether or not to embark on DE).
- Would the programs be developed to meet all accreditation standards including Quality Matters? Any program developed for DE would have to meet ACCJC accreditation requirements and be built per Quality Matters (QM) standards at a minimum.
- Stability of the learning management system The college is still assessing Moodle and will come to a decision on which LMS to use and how extensive it will be in the college.
- Would students still be able to access federal grants/loans to pay their tuition if they were in DE? *Yes.*
- Would students have some online training and orientation? Yes.
- Would faculty have a differential compensation system? No, but models that other institutions have used include compensating a faculty member to build a master course. The course is then cloned for additional faculty members and is owned by the college.
- Would there be required training for faculty? Yes, for faculty who are going to teach online.
- Would all faculty have to teach online? No, only faculty who want to teach online will engage in this process.
- Would there be technology support? This is still under review. Support will be provided, but the extent to which it will be provided remains to be determined.
- Would there be helpdesk support? This is still under review. Support will be provided, but the extent to which it will be provided remains to be determined.
- Would faculty get instructional design support? This has not been determined, but would be the recommended solution, especially early in the development of DE courses and programs.
- What impact would DE have on faculty teaching load? It should not have any impact. The DE courses would be treated like any other course currently being offered at GCC.

Federal and local rules/regulations/public laws on DE and recommendations for GCC

Investigation did not uncover any current local rules or regulations governing DE on Guam; however, it is required that all institutions offering distance learning adhere to Federal rules and regulations. Federal

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rules for DE have been taken into account by the ACCJC recommendations. Please see the document entitled *Federal Regulations and their Impact on Accreditation*.

The Distance Education and Training Council (DETC), which is a private non-profit accrediting agency provides accreditation for secondary and tertiary institutions, and works in concert with federal rules and regulations. University of Guam (UoG) has DETC accreditation and adheres to their rules and regulations. At this time, GCC has not sought DETC review (although ACCJC supersedes DETC) and may want to review DETC in order to meet the needs of GCC students who may seek to transfer UoG DE credits back to GCC. It was noted, during several sessions on campus, that many GCC students take courses at UoG and transfer them back to GCC as part of the degree completion process. As GCC looks to strengthen DE, it will be critical to look at the impact of DE courses on transfer articulation agreements. Information on the DETC and DETC accreditation can be found at http://www.detc.org

ACCJC rules on DE and recommendations for GCC.

This table was completed through reference to the ACCJC Distance Learning Manual, the ACCJC Evaluation Report, and GCC Policy-340.

Curriculum and Instruction	
ACCJC DE Rule	GCC Recommendation
Each electronically-delivered course or program of study results in learning outcomes appropriate to the rigor and breadth of the course credit, degree, or certificate awarded.	The College plans to use the same processes for the planning, approval, evaluation, and review of courses offered in the distance education mode as they do for face-to-face courses, certificates, and degrees. This may pose some difficulties as not all tools and policies apply equally to
A degree or certificate program delivered partially or entirely through electronic means is coherent and complete and results in learning outcomes comparable to those delivered through other means.	face-to-face and online courses.
Student experiences result in achievement of intended learning outcomes whether electronically-delivered courses provide for synchronous or asynchronous interaction between faculty members and students and among students.	Currently, the College does not separate Distance Education data for success and retention. As Distance Education at the College grows, it is recommended that GCC enact this separation because online education differs from face-to-face education in audience, challenges, and opportunity.
Portions of courses delivered through electronic means adhere to the same principles of academic quality and integrity as courses delivered entirely through these means.	Because GCC does not separate online from face-to-face data, this is difficult to determine. Furthermore, there have been challenges in the implementation of the tool used to evaluate distance courses. To fully address this rule, it is recommended that GCC institute a reliable means to evaluate online and hybrid courses. Eventually, data for online and hybrid courses should be

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evaluated separately from that for face-toface courses.

The institution has an effective means of ensuring the integrity of the educational process in electronically delivered courses including assuring that the work submitted for credit by students is submitted by students actually enrolled in the course. In a recent report entitled "Managing Online Education 2013: Practices in Ensuring Quality," WCET states that 79% of institutions surveyed have a policy on academic integrity for online learners; 41% use technologies to authenticate the identity of online learners (36% do not); and 40% identify proctoring sites for online learners at a distance. It is recommended that GCC build means for insuring learner integrity into their Distance Learning Plan and Policy.

Role and Mission

ACCJC DE Rule		
Delivery of courses and programs through	GCC	
electronic means is consistent with the	mode	
institution's role and mission.	provi	

Review and approval processes ensure the appropriateness of electronic delivery to meeting the course and program objectives.

GCC Recommendation

GCC has fulfilled this requirement. The mode of delivery allows the College to provide the "highest quality education" and address the needs of vocational students. Broad-based College-wide discussions have led to the adoption of Board Policy (BP) 340: Distance Education Policy. It is recommended that Policy-340 be reviewed, revised, and operationalized in either a faculty manual or a DE strategic plan.

Specific needs of students for whom electronically delivered courses are intended are identified and addressed.

Learning ResourcesACCJC DE RuleGCC RecommendationAppropriate learning resources are available to
students who take electronically delivered
courses.In the Evaluation Report complied after the
March 19 -22nd site visit, ACCJC accreditors
recommended that the College implement
appropriate support services and
procedures to deliver instruction online.
These should be considered in the GCC
Strategic Plan for Distance Learning.

Students and Student Services

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ACCJC DE Rule	GCC Recommendation
Students receive clear, complete, and timely information on the curriculum, course, and degree requirements, nature of faculty / student interaction, assumptions about technological competence and skills, technical equipment requirements, availability of academic support services and financial aid resources, and costs and payment policies.	In the Evaluation Report complied after the March 19 -22 nd site visit, ACCJC accreditors recommended that the College implement appropriate support services and procedures to deliver instruction online. These should be considered in the GCC Strategic Plan for Distance Learning.
Enrolled students have reasonable and adequate access to the range of student services appropriate to support their learning and assess their progress.	-
Students have the background, knowledge, and technical skills needed to successfully use the technology involved in their course work.	It is recommended that GCC implement means for students to self-assess whether their background, knowledge, and technical skills are sufficient to embarking on Distance Learning. Requirements should be clearly stated in all marketing and catalogue materials.
Advertising, recruiting, and admissions materials clearly and accurately represent the courses and programs, and the services available.	It is recommended that GCC develop these materials for online courses, certificates, and programs in accordance with a Marketing Plan
Commitment to Support	
ACCJC DE Rule	GCC Recommendation
The institution demonstrates a commitment to ongoing program support, both financial and technical, and to continuation of the program for a period sufficient to enable students to complete a degree / certification.	GCC's Information Technology Strategic Plan states that GCC has adequate broadband for the current online courses, but expresses the need for a thorough assessment of technical resources if DE offerings are to grow. It is recommended that this assessment be considered in the DE planning and budgeting process.
The institution ensures that qualified faculty provide appropriate oversight of courses delivered electronically.	Board of Trustees Policy-340 makes accommodations for these rules; it is recommended that this policy be reviewed

delivered electronically.recommended that this policy be reviewed
and operationalized in a faculty manual
and/or strategic plan.The institution gives appropriate consideration
to the technical skills and needs of facultyand/or strategic plan.

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assigned to teach through electronic means.	
The faculty evaluation process provides a means to evaluate technical skills when appropriate.	
The institution provides faculty training and support services specifically related to teaching via electronic means.	-
Evaluation and Assessment	
ACCJC DE Rule	GCC Recommendation
The institution evaluates the educational effectiveness of electronically delivered course work, including assessment of student learning outcomes, student retention, and student and faculty satisfaction. Students have access to such evaluation data.	The GCC catalog lists the SLOs for 100 percent of the instructional programs. The Curriculum Mapping Booklet provides evidence that course SLOs are mapped to programs. The SLO mapping process connects course level SLOs to program SLOs and institutional learning outcomes. The College requires all regular semester,
The institution provides for assessment of student achievement in each course and at completion of a program.	special project, or Continuing Education credited distance education courses and programs to be approved through the Curriculum Approval Substantive Change Process. It is recommended that AIER should evaluate the DE courses through an institutionally standardized evaluation procedure.

The accrediting standards that apply specifically to Distance Education and are not duplicated by the ACCJC standards are listed below. As this is by no a means an exhaustive list of DETC standards, it is recommended the Distance Education Task Force review the complete standards document: http://www.detc.org/UploadedDocuments/DETC%20Accreditation%20Handbook/A.1.%20Accreditation%20Standards%2013.pdf

DETC Rule	GCC Recommendation
II. I. Curriculum Delivery: Online and/or written instructional materials are appropriately presented. Online materials fit the content and are delivered using readily available, reliable technology. Institutional prepared materials must be keyed to the reading competence of the students in the program and be legibly reproduced.	In its reference to the "appropriate technology," this statement alludes to the necessity of investigating, selecting and supporting those tools necessary for the delivery of distance education. These may include sustainable investment in a course management system and 3 rd party tools that support distance education. Involvement of an instructional designer may be helpful to aid instructors in the production of online materials.

II. K. Educational Media and Learning

The investment speaks to the necessity of

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DETC Rule	GCC Recommendation
Resources: Learning resources for faculty and students must be available and appropriate to the level and scope of program offerings. Program designers and/or faculty/instructors make effective use of appropriate teaching aids and learning resources, including educational media and supplemental instructional aids in creating programs and in teaching students. The institution makes effective provisions for students to access learning resources and libraries that are appropriate for the attainment of program learning outcomes.	working closely with the library to assess and scaffold their ability to fully support distance learners. We recommend that library services be included in the Distance Education strategic plan.
II. L. Student Privacy, Integrity, and Identity: The institution has clear, specific, published policies related to student privacy, integrity, and academic honesty. The institution has a student identity verification process that ensures that students who earn the credit or completion credentials are the same students who did the course assignments and assessments.	We recommend that GCC consider investigate and script this policy as a precursor to launching Distance Learning programs.
III. F. Appropriate Technology: The institution uses appropriate and readily accessible technology to optimize interaction between the institution and the learner and enhance instructional and educational services.	This area is considered in the assessment and Distance Learning Strategic plan.
III. G. Resident Training Resident training or face-to-face learning sessions must supplement the electronically delivered, online, or other distance study method whenever it is necessary to attain the stated institutional and program objectives and intended student learning outcomes.	It is recommended that planning for Distance Learning take into considering those times where students may need to be on campus.

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Recommendations on Policies

In order fully support distance learners and distance learning at the institution, it is recommended that GCC consider creating and implementing the following policies:

- GCC Strategic Plan for Distance Learning
- Intellectual Property Policy and Strategy for Online Course Creation
- Policy to Assess and Insure Integrity in Distance Education

Assessment of Current Service Capabilities and Resources

Assessment of GCC Institutional Resources

Hardware

- GCC has 46 classroom labs. Thirty-one of the labs are instructional labs ranging from 12 to 41 computers. There are also 2 open labs, one housing 48 computers (5 are Macs) and the other holding a combination of 18 Macs and PCs. Additionally there are 11 GCC High School Program Labs that hold 10 to 24 computers per lab. There are also 2 testing labs ranging from 15-23 computers. These labs are used for administering secure tests such as Pearson Vue, Prometric, etc.
 - Though many labs exist, there are limited labs available with enough computers for larger course sections. Scheduling classes in these labs has become problematic, and there is competition at scheduling time to get access to these labs.
 - The number of open lab machines available is adequate for current use. However, development of DE programs could result in increased demand for open lab access, including weekend time.
- GCC has a stable network infrastructure. However, during the student focus groups, students reported that wireless access is inconsistent and not all areas of the campus are covered. MIS confirmed that a wireless plan was deployed, but scaled back for financial reasons; thus, there is varied wireless coverage across the college campus. The wireless network is unsecured.
- Seventy-seven Faculty members participated in a Spring 2013 survey at the college on faculty perception and need for Academic Technology and training. The faculty members included both full time and adjunct faculty who teach at the college and at the high schools affiliated with GCC. About 70.1% of the faculty members use a computer (desktop/laptop) to teach their face to face courses, and of these, 44 faculty members indicated that they use a laptop (either GCC owned or personal) to teach their courses with about 26 indicating use of their personal computers for teaching purposes. About 7.6% use tablets for instruction. A future survey asking faculty members if they own personal computers at home that can support their DE courses would be necessary to obtain a better understanding of their DE capabilities.
- The Moodle LMS presently supported by MIS exists in a VMWare environment that is scheduled to be upgraded on March 1-2, 2014, and will require a full shutdown.

Software

- GCC does not employ any software for instructional use that would support synchronous distance delivery (e.g. Adobe Connect, WebEx). No licenses are held for presentation software or video hosting (e.g. Voicethread, Kaltura).
- CourseShare/GroupStudio Is a Banner enabled document sharing tool that some faculty members at the college are using to manage their courses. The platform is used to share course materials, syllabi and other information that the faculty member finds relevant to the students. There is inconsistency in how it is used for instruction. Additionally, GroupStudio is being used as project management tool (sharing documents) amongst taskforce members, institutional committees and departments.
- MathXL Being used to support web-enabled learning for Math 085, 095 and 108. Previous performance analysis has been done and it was determined that after implementation of MathXI

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in 2006 there was an improvement of Math grades to previous levels seen in 2003, however, there hasn't been a significant improvement of Math average grades beyond the 2003 levels, even with the institution of MathXI. Faculty members in the department (both full and adjunct) were trained on MathXI use for ~ 2hours and were provided with the pertinent knowledge to successfully utilize the software. A clear project to determine performance of students in these courses relative to students who are not taking Math courses supported by MathXI has not been completed.

- In a spring '13 Academic technology survey, with a total of 77 respondents, 14 faculty members indicated that they were using web course management which included Blackboard, Edmodo, and Ed2Go,interestingly Moodle was not included as an option. This may skew the data because in a preceding question, faculty members were asked if they would like to see Moodle and there were several respondents who mentioned that they would like to use or have access to Moodle. About 46 faculty members indicated that they use web sources to support their teaching practice, and 38 utilize quiz software whether provided by GCC, personally developed or found online.
- In the above referenced survey, faculty members were asked about their need for grading software. In response to this question, 52 out of 54 faculty members indicated they need or want access to grading software, with the great majority (74%) indicating that this was an "absolute must". Only 2 out of 54 faculty members indicated "no need" for a grading software. This data strongly suggests that if faculty members are provided with reliable grading software and are adequately trained on it, the majority would use the software. Currently, the college hosts Gradekeeper, Moodle, and some faculty members use GradeSource which is open source.
 - Gradekeeper: Currently some faculty members use Gradekeeper to manage course grades. GCC has a site license for it and it is available to all faculty members, but not everyone uses it. This is a website that faculty members upload their course information onto on a semester basis. Some faculty members provide full access to their students while others use the Gradekeeper for their own course management. Faculty members who have a Moodle classroom still use Gradekeeper rather than the moodle gradebook. There is inconsistency in the way students receive their grades from course to course within the institution. In discussion, Wes mentioned that it would be ideal to have an LMS gradebook that provides the features that Gradekeeper has. In previous discussion with Martin LaGrow we had discussed the possibility of integrating the LMS with Banner so as to support grade migration and storage within the institutional Banner system.
 - Gradesource: Some faculty members are using Gradesource to support grade management, whereby students can log into the portal and review their current grades. Gradesource is a grading app that is free to use, however the students whom a faculty member enrolls in this platform can receive advertisements It is unclear whether there is an institutional license for this product. Furthermore, the college already has a license with Gradekeeper, so it may be possible that there are faculty members who are using familiar resources to support their courses and not necessarily utilizing institutional approved software.

Distance Delivery Technologies

- GCC's education department is running an instance of Moodle 2.3 internally. MIS reports that the installation, which has migrated twice, may be unstable as occasional unresolved errors have been noted by MIS.
 - In the Academic technology survey taken by 77 faculty members in spring '13, almost 40 out of 43 faculty members indicated that they would like access to Moodle, either in their classroom, or in some classrooms. 22% of these faculty members indicated that it was an absolute must to have Moodle, suggesting that there is an uptake for Moodle by the faculty members and additional training and exposure could improve interest in the use of this LMS. Only three out of the total 43 respondents to the moodle LMS question stated that there was no need for this LMS.
- The Continuing Education Department offers "online courses" (as stated on guamcc.edu) using Ed2Go, LERN, and JER online. These courses are branded as GCC content, but are offered by third party vendors.

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Technical Support Staff

The MIS department consists of 10 individuals, including programmers, analysts, computer technicians, and a teleprocessing network coordinator. The staff's function is largely focused on infrastructure support and some data management. The staff does not include personnel for end-user support, and does not support students directly. MIS is in the process of interviewing to replace one systems position. Due to the absence of DBA support on staff, the MIS department relies heavily on a third-party support company, partly to support and maintain Banner. The previously administered academic technology had respondents requesting for technology support for classrooms, students described lack of technology support for their computers, email, website (when it goes down), access to MyGCC, in addition insufficient wireless service throughout the campus.

Instructional Development Support Staff

There are no instructional development staff at Guam Community College. Faculty members who have developed online, hybrid or web-enabled courses have done so without institutional support. As mentioned previously, the education department received funding to support instructor use of Moodle (the LMS used to initiate the DE program); however, online course development training using appropriate instructional design principles and including ADA compliance was not delivered, as is evident in online course set up (Appendix 1).

Related projects already started/being maintained

- In Moodle, the Education department has offered CD221 Child Growth and Development and ED220 Human Growth and Development fully online. These courses are also running in spring of 2014. ED270 Behavior Management has run in Moodle as a hybrid course. A number of computer science, business and technology related courses use (or have used) Moodle as 'web enhanced' courses.
- As previously mentioned, certificate programs from third-party vendors are offered to GCC students online by the Continuing Education Department. Specifically Ed2Go, LERN and JER Online. At this time, we were unable to determine what the actual contractual agreement was/is with these online vendors, and cannot make a recommendation as to either maintain or remove the partnership without further knowledge. Areas of concern are:
 - The courses are branded as GCC courses. The institution knows that it doesn't provide credit for these courses, but an individual who signs up for them may actually think that they are GCC courses.
 - GCC generates revenue by providing access to these courses; however there have been instances where courses offered through these vendors are similar to courses onsite; therefore, potentially affecting institutional revenues. The link http://www.guamcc.edu/Runtime/onlinecourses.aspx states that "Continuing Education offers a variety of online non-credit/skill enhancement courses. Gain knowledge of different skills on your own time!" suggesting that GCC has a vested interest in running these courses and obtains value by marketing them through the institution's website.

Assessment of Current GCC Service Capabilities

Infrastructure

- The power and network infrastructure at GCC are adequate for their needs. Network usage is monitored and kept at no more than 75 percent of capacity. The wireless network is open, although MIS is investigating security solutions to require sign-in to access wireless. Wireless access points are available around the campus; however, there is no full coverage. At times students will create ad hoc networks to extend coverage, causing some confusion for other students. For effective support of distance education, wireless access should be stable and expanded to all areas of the campus.
- A number of challenges prevent the MIS department from effectively supporting distance education:

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- Lack of in-house technical hardware/UNIX/LINUX operating system support. This may be partially resolved with the new position MIS is presently interviewing for; however, there is likely to be a steep learning curve with Moodle and UNIX/LINUX as well as server virtualization.
- Presently there is no real-time backup in place for disaster recovery, failover, or redirection. Uptime is not guaranteed.
- No Real-time data backup processes are in place.
- There is no sandbox for testing system changes.
- Training of MIS staff in technologies to support distance education and to maintain and expand technologies would require financial resources.

Student validation/authorization

- To access Moodle, students must self-register. They are given unique registration information before initially logging in to provide validation. Currently, there are instances where students who have multiple courses supported by Moodle have different usernames and passwords for each of their courses. This creates confusion and frustration for the students when they try to access their courses. Furthermore, because of lack of helpdesk support, there is a higher chance that these students who struggle with access to content may sometimes even forfeit the course altogether leading to poor course retention. Some instructors have been provided with administrative functions so that they can independently provide student user names and passwords in the even that a student reaches out to them. At a small scale this may be manageable, however this is not scalable.
- Students authenticate to access email, calendars, and some course resources through the MyGCC portal.
- Ideally, any LMS access should be available to students via single sign-on from the portal. Registration processes and course creation should be integrated from Banner rather than manual. This would require additional technical support from outside experts.

Faculty capability

Generally speaking, GCC faculty members are not trained or prepared for distance education. Some faculty members have knowledge and experience in distance education from outside personal experiences, such as taking online courses or teaching online for other institutions. However, there is inconsistent foundation of knowledge or baseline of skills for distance education. Interestingly, in the above mentioned academic technology survey, faculty members from the English department requested that they be allowed to use Moodle as evident from the following responses:

- "Again, please look into allowing faculty members from the English Department to Use Moodle. Thanks!".
- "Thanks for the opportunityI hope you will consider making Moodle available to all faculty who are interested".

This suggests that faculty members are interested in utilizing the LMS to support instruction, but at this time they have been unable to access the resource due to internal constraints. This was a sentiment that was also shared during the faculty members focus group sessions.

In focus group sessions, several of the faculty members leaned towards hybrid models rather than fully online courses, so there may need to be further dialog on the value that fully online courses/programs would bring to the institution. Several students struggle with getting on campus due to transportation issues and also scheduling conflicts due to their work schedule, so access to a few online courses would alleviate their difficulties and lead to course or even degree completion. It will be critical for the DE taskforce to support the college in determining faculty member ideology and philosophy on DE and whether they will actively engage in DE if indeed it is decided that this is a path that the college will embark on.

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Faculty hiring

At the college there are more full-time faculty members than adjunct faculty members. Faculty members are hired on a one year probationary status if they meet all the minimum qualifications as stipulated in the Faculty Job Specifications.

Faculty members who meet all qualifications with the exception of 18 credits in Professional Education or 6 credits in Career and Technical Education, are hired on a conditional appointment (limited term) and are afforded 3 academic semesters to obtain the required 18 credits in Professional Education or 6 credits in Career and Technical Education. If the Faculty member completes the requirements, then they are converted to the one year probationary status; if the faculty member does not complete the requirement, then they are terminated from employment.

All full-time faculty and adjuncts are evaluated and rated by Human Resources (HR). HR determines and certifies if the faculty member or adjunct meets minimum requirements for the job. The process to hire adjuncts (who are contractual employees) is not as lengthily as the hiring process for full-time faculty (permanent track). The qualification to instruct a course is the same for a full-time faculty and an adjunct (i.e. to instruct Math, a master's degree is required).

The Department Chair (DC) helps HR in the recruitment for adjuncts (i.e. they get the word out). HR accepts all applications for interested adjuncts; however HR will only evaluated the applications upon request from the DC. Once the request is made, HR evaluates and certifies who qualifies or not. The DC then interviews only the qualified applicants and makes the selection for adjuncts.

Instructional technology

Training for instructional classroom technology (e.g. SmartBoards, laptop presentation tools) occurs on a per request basis. Instructors who use Math XL are trained departmentally.

Faculty training and support requirements

- To successfully offer distance education, a baseline of knowledge and skills for instruction would need to be established. Faculty members will require training in both tools (functionality of the chosen LMS) and technique (best practices in online pedagogy). Even those who are presently teaching online are not versed in the capability and functionality of Moodle or in best practices such as meeting ADA requirements for online instruction.
- Based on these observations, any plan to offer distance education should include instructor training and instructional design assistance, both in the process of designing courses and in support of instructors while delivering the courses.
 - In the previously mentioned academic technology survey, faculty members indicated the greatest need for training in grading software, Moodle, Quiz software, CourseStudio, Google apps, Web Course Management, and the use of Web sources.
 - When asked if they take advantage of training, 77.8% indicated that they either take the training or take it sometimes. The majority of the survey respondents who are not participating in training regularly or at all, stated that there were scheduling conflicts. A few mentioned lack of knowledge of training sessions but most of the faculty members are seeking some level of flexibility in accessing training. This was a key component of the faculty member focus group sessions held on campus. Faculty members requested that they "receive training to support their course development process" in the even that GCC embarks on online course development.

Student training and technical support requirements

- GCC students typically have little or no exposure to distance education and are not aware of what it entails, though some students have expressed interest. Prior to taking distance education courses, students should be vetted for their technical capability (online student survey). Training in three areas should be provided:
 - LMS functionality and features;

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- Best practices for online learning;
- DE support resources available from GCC.
- As technical support for students is limited at GCC, the adoption of any distance education program should also include a plan to support distance education students. Technical assistance will be necessary for sign-in issues, compatibility issues, functionality issues and other technical factors. For a fully online program, ideally the support should be available 24/7.

Student Support Services

Admissions and Registration

The admissions and registration functions are handled under the same management. As indicated in the figure below, there are several functions that utilize manual processes. These would hinder smooth admission and registration of a new fully online student. Returning/continuing students who do not have a hold on their accounts (green arrow) can reapply and register for their courses online; however, they are still required to go to the registrar's office for ID purposes. A new student to the college would undergo manual application from the beginning of their application process because there are several PDF documents available on the Apply now page of the college's website (Figure 1). The student doesn't have access to the **Apply now** portal in Banner until they have sent in required documentation. Currently the college is using an ID system that requires ID provision every semester. The college is seeking solutions to streamline ID provision with Banner.

In order to support a fully online student, the manual processes described in the figure will require automation or work-around processes, such as use of phone, email, fax to authenticate and

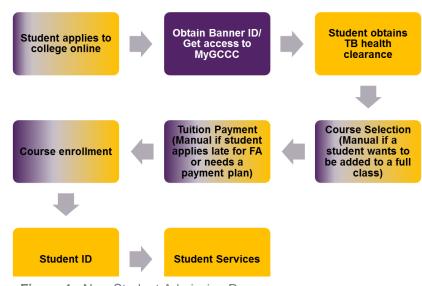


Figure 1. New Student Admission Process

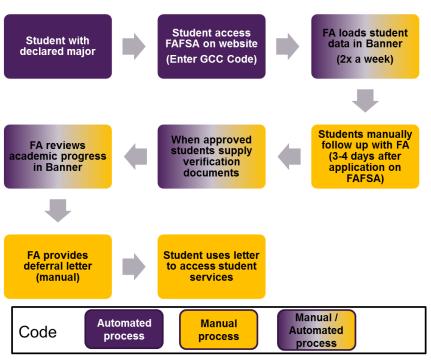


Figure 2a. Financial Aid (FA) application and processing

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provide required documentation. The TB clearance will require additional discussion on policy and process because onsite students require this clearance. It was discussed during the onsite visits that it may be possible to waive the TB clearance since a fully online DE student would not need to come on campus.

Financial Aid

Following course selection, the student has to make a tuition payment. In instances whereby the student applied for financial aid (FA) early and went ahead and was approved, a hold on their business account is lifted and the student would be able to reapply, register and enroll for courses online (automated). Figure 2a describes the process a student takes when they apply for Financial Aid as recommended by the FA office. However, they would still have to come on campus to get their college ID. If there are any holds (Pre-Req, grades, health certificate etc.) on the account then a manual visit to the college is warranted so as to lift all holds. The registrar's office mentioned that during registration periods many students could have issues resolved online if there was automation of processes such as installment plan establishment.

Students who have missed the financial aid deadline have multiple layers of steps they have to undertake in order to register for the courses they need. As indicated in figure 2b, the student would have to meet with an accounting supervisor if they are unable to pay for their courses prior to FA clearance. The Accounting Supervisor assesses the students' situations on a case by case basis and in certain instances has not granted the student a waiver. Students who receive a waiver, manually select courses, pay a fee to the cashier and sign up for installment payments, after which, they take receipts to the accounts receivable technician so that the student's information can be updated in Banner (as a payment plan). This then allows the student to pay for tuition (they can pay online or in-person), and the tuition hold is released after the last installment is paid, or after they receive FA and they make bulk payment to the

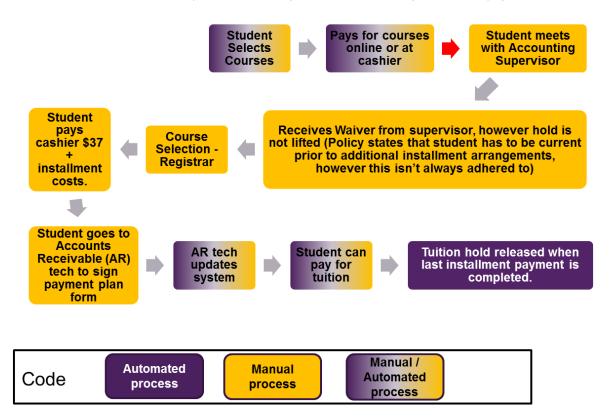


Figure 2b. Deferred Payment Process, for students apply late for Financial Aid. Red arrow indicates that a student needs to meet with Accounting Supervisor because they cannot afford the payment plan and need FA.

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cashier.

A typical example would be a student who needs a cashier's signature so as to have a hold lifted off for a poor grade in a previous semester. The student then takes the form to the FA office for review followed by a waiver being provided to the registrars' office, the student then lines up to register for the courses, pay for them at the cashiers (if necessary), goes on to get an ID and then can buy books and attend class.

Advising / Counseling

GCC currently supports 5 high schools and has guidance counselors embedded in each of the high schools. However, in addition to guidance counselors there are 3 counselors at the college of which one actively supports the "apprenticeship" program. New students are expected to meet with advisors or counselors as part of their enrollment process, during which they receive a clearance form, and pay

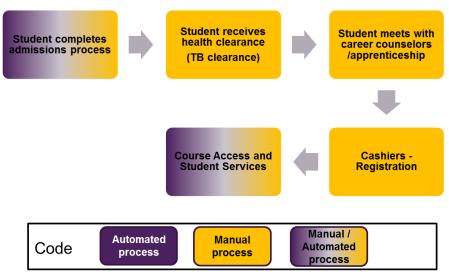
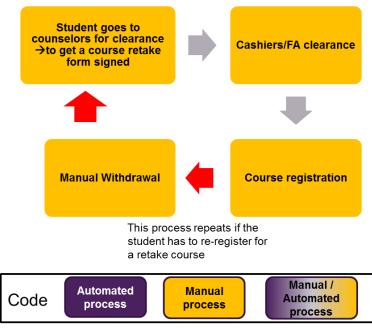


Figure 3. Advising as part of the enrollment process for new students. Note: Advising is highly recommended but not required

for courses that they want to enroll in (Figure 3). Students are assigned a faculty advisor about three weeks after they have enrolled in their program of study, and they are supposed to meet with their advisors every semester. However, active advising is not enforced, and in discussion with students they

mentioned that in several instances they have been unable to reach their faculty advisors, at which point they resort to meeting with the college counselors. Counselors also mentioned that the students tend to go to them for academic advising because they are more approachable, available and familiar to the students. Further review into the effectiveness of the advising process will be required. Counselors mentioned that in many instances. students do not take courses that meet their program of study and sometimes enroll in courses just so that they can maintain their full time status. The apprenticeship advising model is in closest alignment with distance education advising best practices. This entails provision of a program of study map with a semester by semester outlay of expected courses to enroll in. The





students are then actively sought to meet with their respective advisor every semester as they enroll in upcoming courses, and this is tracked. This minimizes error in course selection and manages "time to

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completion" matters for most students. The advisor tends to also double as a career coach. The counselors at GCC have multiple roles as career coaches, advisors and in some instances provide sociological counseling. (Note: Unclear as to whether the counselors have certification for this role \rightarrow this may pose a risk to the college for lawsuits. Further review of counselor job expectations and certification is warranted).

Students who have to retake a course are required to get clearance from the counselors as presented in Figure 4. A student with a D or F grade is allowed to retake a course and this cost can be offset by Financial Aid. It was determined that students meeting with counselors was of no value to the student because they receive a signed form indicating that they are retaking a course, however there is no review of current student progress at this stage, nor is there any advising on study skills, setting goals, or even review of career paths (unless the student specifically asks for it). This suggests that the students go to counselors just to have a form signed after which they go back to FA for clearance (If they need FA) and then to the cashier to pay for the course which is added manually to their schedule. The counselors mentioned that during the first week of school they have sometimes processed about 100 students undergoing the course retake clearance process. In the event that the student has to reschedule the retake course, they have to go through a manual withdrawal process, and then repeat the process (red arrows in figure 4).

Library

The Learning Resource Center is open Monday through Friday, most weeknights until 8:00 pm. In addition to traditional library resources, the LRC offers a Kindle e-reader borrowing program, streaming videos available through Films on Demand, access to the catalog through Dynix Bookmyne (a mobile app), and access to EBSCO. As such, the library is well-positioned to support distance education. Areas in which the library would need to expand services include:

- Real-time research and style guide support for online students (e.g. chat, 1-800 phone support) to match the support provided in-person;
- Expansion of hours to include later evening and weekends for distance students that may work odd hours;
- Development of a mailing loan program for students that cannot come to campus. Note that this becomes very problematic if resources were to be loaned to students off-island. Mail delivery can take an extensive amount of time, meaning resources are out of circulation for long periods.

Health services – Currently the college has a requirement that prior to course registration a student has to have a tuberculosis clearance certificate. This policy is a government policy and governs students who are onsite. In the event that a student is fully online and does not come on campus, the college may be able to waive this requirement. Currently a student has a hold on their account until they have provided proof of TB clearance after meeting with the nurse at the health center.

Course Add and Withdrawal

Currently students withdraw or add courses through manual processes. The course drop process is automated. The student who wants to add to a full course has to have a signed approval from a faculty member to allow for them to be manually added to the course at the registrar's office. In the same vein, a student who wants to withdraw from a course does so manually.

Transcript Requests

Currently the college has an online portal for transcript requests, but the student authentication and clearance process is manual. After clearance the student can pay manually at the cashier's office or the payment amount can be manually entered into Banner and the student pays using the E-commerce solutions. Although the clearance process is manual, it was determined that students could probably use email, phone and fax to complete the whole transcript request process.

Staff Capabilities

Staff would like to put in place measures that increase automation and ease student congestion especially during the admissions/registration period. In several instances staff mentioned that they are in the process of improving their processes such as in FA, ID processing, and marketing. Like the faculty,

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staff will also need to undergo a change management process because they have become familiar with working with inefficient processes, which they could easily lapse into if clear pathways for adopting new processes are not clearly mapped out.

Recommendations on Service Capabilities and Current Resources

- 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 members. Within the context of the adopted LMS environment, design and offer training courses for both students and faculty members who would participate in distance education.
- 5) Partner an Ellucian Instructional Designer with selected faculty members 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 members at the departmental level are assigned advisees; however both the counselors and students indicated that very few faculty members 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.

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- 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 members seeking to teach online courses at GCC. This is especially relevant for the adjunct faculty members.
- 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.

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 members who will be engaged with the pilot project.
- ✓ Train DE course evaluators.

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Appendix 1 – Moodle Courses

Text-Enhance Adware creates hyperlinks to external sites that show up when you hover over the links. These were seen from mainland computers but not on Guam.

lavigation	-	Guam's Lead	er in Workforce Development [®]
My home Site pages My profile Courses		Visit the main GCC website to s <u>Clict</u>	e why GCC is Guam's Leader in <u>Workforce Development</u> ^G I k to visit the main GCC website ut Guam Community College, call 671.735.5531~4.
Courses		Available courses	
Settings		Available courses	
Front page setting Turn editing on Edit settings Users Filters Backup	s	CD221 Child Growth & Development - (ONLINE) SPRING 2014 Teacher: Tonirose Realica	This <u>online course</u> ⁶⁶ provides an overview of the interrelationship between language and social growth in young children from conception through the effects of heredity and environment on the development of young children. T community and society and how they impact on development is also explore
Restore Question bank	5	ED220-07 Human Growth and Development- (ONLINE) SPRING 2014 Teacher: Jonah Conception	This online course includes the study of human growth and developmen emphasis on the formative and school years of the child. An overview of physical, emotional, intellectual, and social growth will be presented.
My profile settings	ě.		physical, emotional, intellectual, and social growth will be presented.
Site administration	1		
		ED220-08 Human Growth and Development- (ONLINE) FALL 2013 Teacher: Ed Cruz	This online course includes the study of human growth and developmen emphasis on the formative and school years of the child. An overview of
Search			physical, emotional, intellectual, and social growth will be presented.

Serif fonts are not ADA compliant.

Hello FUTURE Educators of Guam!
I am very pleased with your participation in this ONLINE course. As we move into the technologically-advanced world, we, as educators, must be coherent with how society is communicating with one another.
Because this is an online course, it is imperative that you keep abreast of what is happening in our online community at the very least on a weekly basis. It is suggested that you keep a schedule of when to log in. For example, I may choose to commit to log in every Wednesdays and Friday.
Should you have any questions or concerns, please do not hesitate to contact me immediately at: tonirose.realica@guamcc.edu
Always keep in mind that when you enter your username and password,
vou are verifying your identity as the student enrolled in this course.

Shading, bold, colors, and highlighting should be used judiciously for ADA compliance.



ory face-to-face orientation held on <u>January 17, 2013</u> at G is online course.

ills needed to work around the MOODLE site. These skills

ost and two replies

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